



88012885

IN REPLY REFER TO:

1260 (943)

## United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

## OREGON STATE OFFICE

825 NE Multnomah Street

P. O. Box 2505

Portland, Oregon 97208

MAR 08 1985

## Memorandum

To: Director, ALMRS PROCUREMENT ANALYSIS

From: State Director, OREGON STATE OFFICE

Subject: ALMRS Equipment Analysis

As per your instruction memorandum DSC-83-87 dated January 21, 1983, we have prepared the ALMRS Equipment Analysis based on the format developed jointly by the Idaho State Office and DSC.

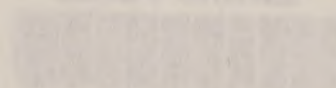
If you have any questions, please contact Harold Barenda (943) 779 429-6255 or Pat Green (935) 779 429-1317.

ASSOCIATE STATE DIRECTOR

Enclosure

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Denver, Colorado



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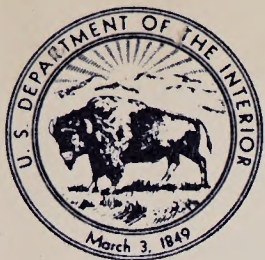
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# United States Department of the Interior

IN REPLY REFER TO:

1260 (943)

## BUREAU OF LAND MANAGEMENT

### OREGON STATE OFFICE

825 NE Multnomah Street

P.O. Box 2965

Portland, Oregon 97208

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1985

MAR 08 1985

#### Memorandum

To: Director, Denver Service Center (150)

From: State Director, Oregon

Subject: ALMRS Equipment Analysis

As per your instruction memorandum DSC-85-87 dated January 23, 1985, we have prepared the ALMRS Equipment Analysis based on the format developed jointly by the Idaho State Office and DSC.

If you have any questions, please contact Harold Berends (943) FTS 429-6255 or Pat Green (955) FTS 429-5317.

ASSOCIATE STATE DIRECTOR

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## ALMRS PROCUREMENT ANALYSIS

### Oregon State Office

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ALASKA PROGRESS REPORT ANALYSIS

Oregon State Office

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## INTRODUCTION

### EXECUTIVE SUMMARY

The Automated Land and Mineral Record System (ALMRS) Procurement Analysis reviews Oregon/Washington needs for equipment during ALMRS development, beginning this fiscal year (1985). The crux of this analysis is contained in the "Assumptions" and "Equipment Needs Analysis" sections. These sections describe the basic premises and objectives for ALMRS development and estimate what staff and equipment will be performing what type of functions in the State, volume of work to be performed, anticipated use of the system, existing compatible equipment, and additional equipment needed. Equipment need is described in terms of terminals and printers, concomitant telecommunications and ADP equipment. An overview of ALMRS development is provided in the "Introduction."

Summary tables at the end of this document condense these equipment needs into three priorities:

Priority 1 - The minimum to initiate land status; minimum case processing capability; equipment for the State Office; a total of 1 terminal and 4 printers.

Priority 2 - Increase capability in Oregon State Office and provide additional equipment to six district offices and one Resource Area Office; an additional 12 terminals and 10 printers.

Priority 3 - Optimize capability at the State Office, and additional equipment for two district offices; an additional 4 terminals and 4 printers.

The procurement analysis spans approximately three years, totals approximately \$378,050. If all priorities were funded by the ALMRS office in DSC (D-150), it would mean the purchase of 17 terminals and 18 printers; \$57,100 in telecommunication upgrades; \$310,000 in ADP equipment upgrades; and \$10,950 <sup>1/</sup> in maintenance contracts. The major ADP upgrade is in Priority 2 in the amount of \$300,000.

This analysis was completed cooperatively by Branch of Lands and Minerals Operations (943) and Branch of Information Services (955).

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<sup>1/</sup> This is a per year maintenance cost estimate.



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## INTRODUCTION

The Automated Land and Mineral Record System (ALMRS) has evolved since April, 1982. The oil and gas case records was automated as an aid to managing and processing the backlog of cases. Today's ALMRS mission is to develop and implement an efficient system for recording, maintaining, and retrieving legal land description, ownership, status, and title information in support of Federal programs and public resource users.

ALMRS is being developed incrementally from a manual records system to a fully automated system. It will incorporate three major components: legal land description, ownership/status data, and case management/processing. ALMRS will eventually be integrated with a geographic information system (GIS), being developed in DSC, for graphic display of the components listed above. The legal land description component will describe parcels of land by recognized methods such as the Public Land Survey, metes and bounds, parcel numbering, and tracting. The ownership/status component will describe rights to use and enjoy property, transfer title, and availability of a tract for governmental or private use or disposal. The management/processing component will allow input, manipulation, retrieval, and reformatting of data for reports, records, billings, etc. The definition of records and other terms is included in Appendix 1.

Presently ALMRS is a case recordation system that has been operational since June of 1982. It only uses 38 of the 102 data elements to be used by ALMRS. Operating limitations have been identified by users and technical review committee and temporary solutions are being developed.

Manual records such as the Historical Index, Serial Register Page, and some updates to the Master Title Plat will be displayed on computer terminals in the future. Legal descriptions for 4,941 townships in Oregon/Washington will be available, as well as associated status. Lands and Minerals case file and mining claim data will also be available. Stipulations will be compiled for case processing, adjudication, and management decisions.

ALMRS will allow BLM to quickly validate legal land descriptions in applications, adjust total acres in cases as lands are added or deleted, and streamline steps in the adjudication process. It will quickly produce comprehensive reports and eliminate labor-intensive, redundant manual compilations. Status data will be more consistent, errors identified and corrected, and accuracy of statistical reports will be greatly improved.

With equipment in place, records can be quickly and easily updated at any Bureau office with the authority to take an action affecting land and case status. The public will be encouraged to go to district/resource area managers for action on their requests. ALMRS will provide field managers with a modernized records system to facilitate use of the authority delegated to their offices.







ALMRS outputs will be more understandable to the public, BLM, and other agencies. A narrative description of status by section, township, and range will facilitate land record use and understanding by all users. ALMRS will add a new dimension to the public land records because it can aggregate and manipulate land status data. Knowledge of title ownership or use will be obtained from BLM in a timely and consistently accurate manner.

ALMRS will provide an interface with, and automated transfer of, data to the Simultaneous Oil and Gas program and to the Financial Management System. It will promote coordination and exchange of data among Minerals Management, AFS/PAAS systems, USGS, Forest Service, and other governmental entities who rely on BLM for land status statistics.

#### ASSUMPTIONS

1. The plan addresses equipment needs for FY 85 through FY 90 based on the following priorities:

Priority 1 procurement consists of all terminals and printers needed to provide a minimum operation in the State, districts, and resource area offices for collection of new and remaining case data, update survey data, and to begin capturing status data. It represents a minimal equipment and staffing configuration.

Priority 2 procurement increases the minerals and mining systems staffs' capability to track and query the data base.

Priority 3 procurement provides for full implementation of tracking and querying systems at all levels of the State and completes the extent of this analysis based on ALMRS development specifications and the assumptions of this analysis.

2. This analysis assumes that ALMRS will have sufficient telecommunications and computer processing support.

3. The plan addresses needs based on optimum configuration for implementation excluding GIS, because GIS technology has not fully been defined.

4. Optimum configuration means every office (SO Division, SO Branch, DO, RA, etc.) should have access to ALMRS data and be able to print out information in a convenient location based on user needs. This also includes adequate public use. Consider volume, location, and shared terminal vs. constant access.

5. Implementation will be completed within this five-year period and involves all legal land description or survey work being done in-house and all status work being completed either by contract or in-house at the State's option. ALMRS will fund the collection of survey and status input.







6. Future interagency needs are not represented in this analysis and will be addressed by other means.
7. A very elementary workload analysis is needed at this time to assess the ALMRS workload and thus the necessary equipment (Priority 1) for FY 85. For example, a workload of inputting survey information for 2,100 townships requires approximately 8,400 hours or 4.1 employees per year. Equipment necessary for four employees would include three terminals, a planometer, work space, office equipment, storage area for plats, hanging rack for printouts, etc.
8. Final ALMRS implementation will eliminate Serial Register Pages, the Historical Index, and Mining Claim Microfiche. The microfiche indexes used in the Minerals Operations Section may still be available in an improved version if it is not possible to eliminate them entirely.
9. For this analysis, do not consider the use of OMRON or RAMTEK terminals or mini- or microcomputers.
10. ALMRS will only pay for first-year maintenance of terminals.
11. Down loading of all state-related case recordation, mining claim, survey, and status data will continue on to the Level-6 Computer.

#### EQUIPMENT NEEDS ANALYSIS (Terminals and Printers)

Based on the assumptions for implementation of ALMRS, workload and equipment needed have been estimated for all of Oregon/Washington in the subsequent area-by-area equipment analysis. Because the location of ALMRS work to be done is a key factor in identifying equipment needs, terminal and printer requirements have been identified by specific areas within the State and district offices.

Need is based on both current and future workload requirements. The ALMRS workload of each area is described in the "Need" paragraphs on each page. Identified users are based on assumptions regarding automation of the manual lands system. The volume/usage paragraph on each page reflect estimates from present experience. The additional equipment is based on need, location, and volume of workload.

Priority 1 procurement consists of all terminals and printers needed to provide a minimum operation in the State and district/RA offices for collection of the remaining case data and updating survey data. It represents a minimal equipment and staffing configuration.

Priority 2 procurement increases the minerals and mining staffs' capability to track and query the data base.

Priority 3 procurement provides for full implementation of tracking and querying systems at all levels of the State, District, and Resource Areas and completes the extent of this analysis based on ALMRS development specifications and the assumptions of this analysis.



It should be noted that the data are not representative of the entire population and will be subject to some error.

The data are presented in Table 1, which is divided into two parts. Part I shows the results of the survey for the years 1960-1969, and Part II shows the results for the years 1970-1979. The data are presented in terms of the number of cases, the number of deaths, and the number of survivors.

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### DISCUSSION

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Division of Operations

- Public Room -

S

(T) (AP)

(TP) (TP)

E

#### NEED:

This office is the center of resource-user activity on federal lands in Oregon and Washington. The public has access to Master Title and Use plats, Historical Indices, Serial Register Pages, geographic and activity reports, and a variety of supplemental and retired records. Record formats include paper, mylar, roll film, microfiche, aperture cards and printouts. Most requests for public land information is generated in response to telephone, mail or in-person contacts by the public, other agencies or BLM office staff. Public inquiries are expected to greatly increase with the downloading of mining claim and survey data to the state office computer. Public attitudes toward the automated records has been overwhelmingly positive with expanded case data and report outputs eagerly awaited.

#### USERS:

Primary users are the public and one Public Contact Representative. Secondary users are the Public Assistance & Records Staff.

#### LEVEL OF USE:

The two terminals and one printer presently in use are operated an average of 2-3 hours a day. An additional terminal and printer will be installed shortly. Downloading of the mining claim and survey data base is expected to double public use of the equipment.

#### EXISTING EQUIPMENT:

3 Terminals, 2 Printers (TP) (T)

#### ADDITIONAL EQUIPMENT:

Priority 1: 1 High-Speed Printer (AP)

Priority 2: None

Priority 3: None

#### ADDITIONAL COMMENTS:

A high-speed printer is needed to satisfy public demands for comprehensive reports or extensive record copies that are impracticable to run on the low-volume (slaved) printers. In the absence of a full-time computer operator, large runs must be retrieved from the 7th floor computer center; requiring a record technician to detailed on a 5-10 minute trip for each request.



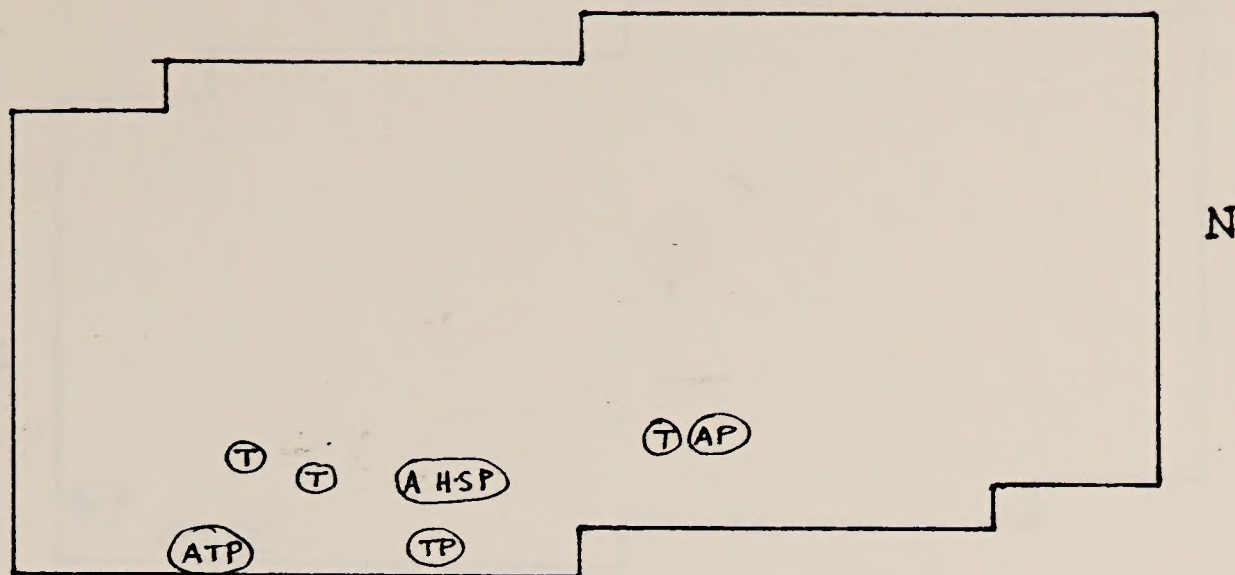




Division of Operations

- Records, Accounts, Docket -

S



NEED:

This office is the functional point-of-control for the state ALMRS operations. This office is responsible for serialization, financial accounting and manual record notation of all land and mineral cases, as well as the initial input of all cases originating in the State Office. Until a state-wide communication network is operational, all initial data input or updates for the districts and resource areas will be performed by this staff. Other ALMRS responsibilities include maintaining the data element dictionary and name file; verification of proprietor, action code, legal description and acreage; orientation and training for BLM, other agency and public record users; case record and ALMRS/ORCA file compatibility audits; support public room inquiries; coordinate the state ALMRS effort with other ORCA states and the DSC ALMRS staff. This unit will input about 50-60% of all Oregon and Washington cases.

USERS:

1 Public Assistance & Records Chief, 1 Application Examiner/Cashier, 1 Supervisory Records Specialist, 3 Miscellaneous Documents Examiners, 4 Cartographic Technicians, 1 File Clerk.

LEVEL OF USE:

4 Terminals and 1 Printer are used 7-8 hours a day.

EXISTING EQUIPMENT:

4 Terminals, 1 Printer (TP) (T)

ADDITIONAL EQUIPMENT NEEDED:

Priority 1: 1 High-Speed Printer, 1 (slaved) Printer (A H-SP) (AP)

Priority 2: 1 Terminal, 1 Printer (ATP)

Priority 3: None

ADDITIONAL COMMENTS:

A High-Speed Printer for ALMRS File Controller is necessary for case audits and state-wide reports. Another (slaved) printer is needed at the point of initial data input because serial pages are still needed for new cases, status and district updates even though the public room posting ceased on February 19, 1985. A second terminal in records is needed for consistent verification of update and close-out actions; the additional printer will be shared by records and docket.







Division of Operations  
- Mining Claim Recordation -

S

(ATP)

(T)

(T)

E

NEED:

This office is the central receiving and recording point for all mining claims located on federal lands in Oregon and Washington. New mining claims are entered into an automated record system after serialization. All update actions, assessments, transfers of interest, state-wide reports and record audits are performed by this staff. Inquiries from the public or other agencies that are case-specific are handled by this office. The supervisor will be responsible for the close coordination of mining claim record entry into the ALMRS system and the eventual downloading of that database to the state office computer. Other responsibilities include the input of interim actions, pending actions, use conflicts, petitions for the deferment of assessment, status checks, quarterly progress reports and the coordination with district and resource area offices for multiple use management.

USERS:

1 Supervisory Conveyance Examiner, 3 Conveyance Examiners and 1 File Clerk.

LEVEL OF USE:

2 Terminals are used 7-8 hours a day.

EXISTING EQUIPMENT:

2 Terminals (see comments) (T)

ADDITIONAL EQUIPMENT NEEDED:

Priority 1: None

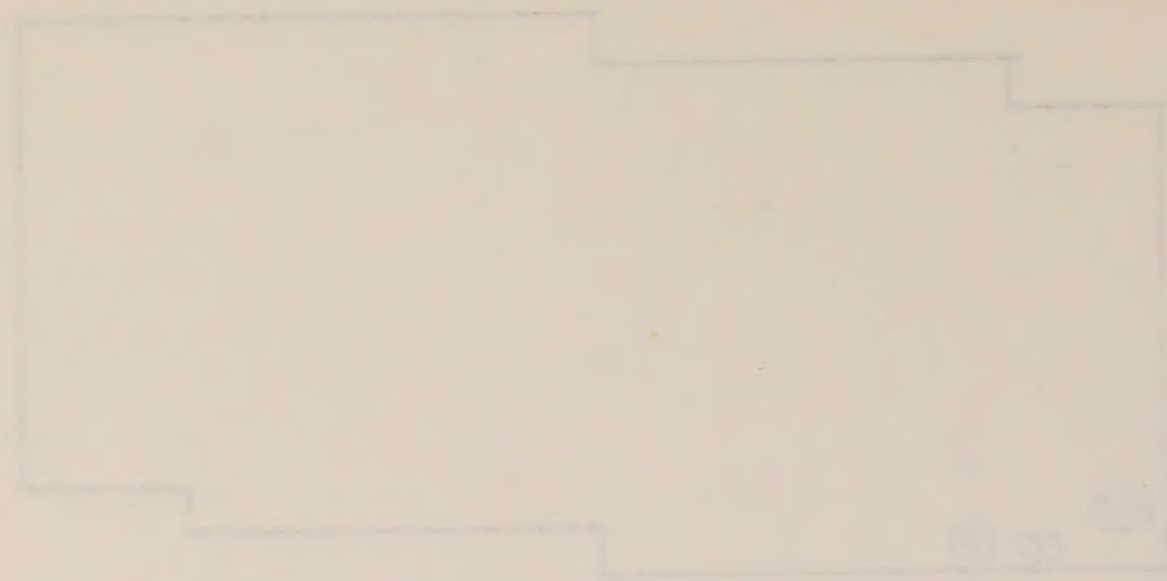
Priority 2: 1 Terminal, 1 Printer (ATP)

Priority 3: None

ADDITIONAL COMMENTS:

Downloading the mining claim record database to the state office computer will necessitate the replacement of existing OMRON terminals with Tannbergs. In addition, reporting capabilities not presently available will then become highly desirable to other agencies and the public alike. An additional terminal and printer will be needed for responding to inquiries and requests for reports.





UNITED STATES DEPARTMENT OF AGRICULTURE  
BUREAU OF PLANT INDUSTRY

This report is the result of a study made by the author for the purpose of determining the relative value of the various methods of propagating plants from seed, cuttings, and other means. The study was made in the laboratory of the Bureau of Plant Industry, United States Department of Agriculture, during the year 1911. The results of the study are given in the following table:

Method	Advantages	Disadvantages
From seed	1. Cheap 2. Easy to make 3. Large quantity can be made at once	1. Time consuming 2. Uncertain results 3. No control over characteristics
From cuttings	1. Cheap 2. Easy to make 3. Large quantity can be made at once	1. Time consuming 2. Uncertain results 3. No control over characteristics
From other means	1. Cheap 2. Easy to make 3. Large quantity can be made at once	1. Time consuming 2. Uncertain results 3. No control over characteristics

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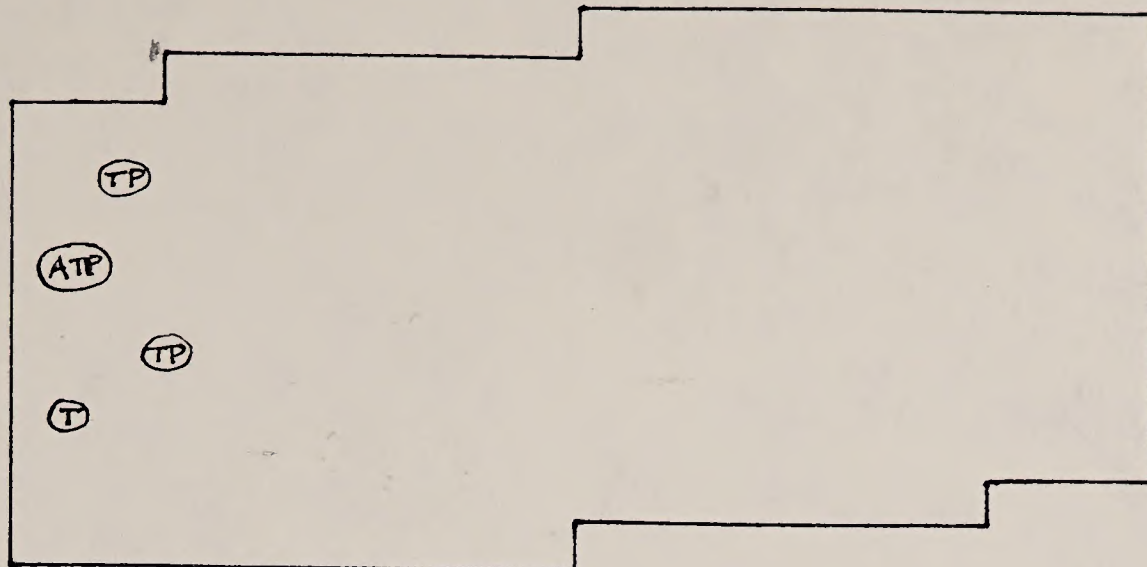
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From other means	1. Cheap 2. Easy to make 3. Large quantity can be made at once	1. Time consuming 2. Uncertain results 3. No control over characteristics



Division of Operations  
- Mineral Leasing -

S



NEED:

This office is responsible for all adjudicative actions related to the mineral leasing program on federal lands in Oregon and Washington. Responsibilities include identifying land management conflicts, tracking bond and qualification files, monitoring and updating the stipulations database, maintaining case call-up tickler files, answer public and interagency inquiries about case-specific actions, processing assignments and applications for mineral leases. This staff verifies the initial data input of new cases, enters any pending and interim actions on pending cases, and input all update and close-out actions taken on cases as they occur.

USERS:

1 Mineral Operations Chief, 1 Geologist, and 7 Land Law Examiners.

LEVEL OF USE:

2 Terminals and 1 Printer are used an average of 2-3 hours a day each.

EXISTING EQUIPMENT:

2 Terminals and 1 Printer are presently in use, an additional 2 Terminals and 2 Printers will be installed shortly. (TP) (T)

ADDITIONAL EQUIPMENT NEEDED:

Priority 1: None

Priority 2: 1 Terminal, 1 Printer (ATP)

Priority 3: None

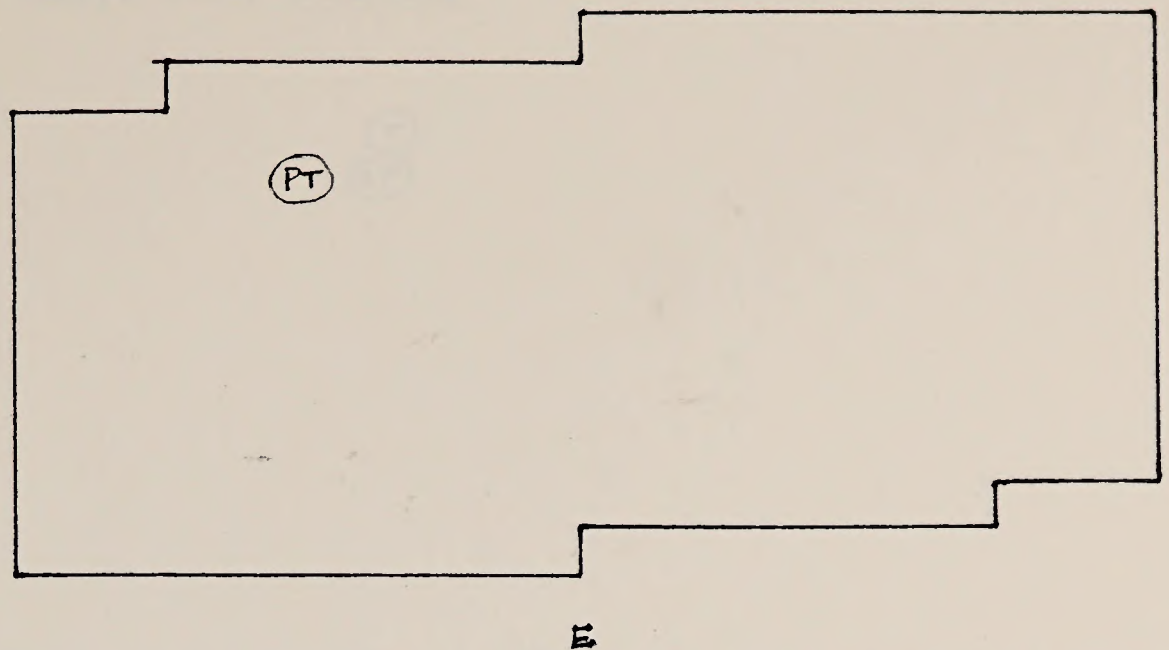
ADDITIONAL COMMENTS:

Increased responsibility for verification and input of record actions will have a corresponding effect on equipment usage. Completion of mineral patent, validity and mineral prospecting cases will expand the automated record coverage dramatically and necessitate the increased involvement of the mineral leasing staff in computer input/outputs.









Division of Operations

- Land Operations -
- Access Staff -

NEED:

These two offices are responsible for the Bureau's land and acquired access programs in Oregon and Washington. The staffs check land status, identify land management conflicts, monitor classifications, adjudicate pending and authorized case files, review the actions taken by district and resource area offices, maintain case callup tickler files, answer public and interagency inquiries about case-specific actions, audit land record data, produce state-wide progress and status reports, and coordinate with district and resource area offices for multiple use management purposes. In addition, these two offices verify the initial data entry of new cases originating in the state office, enter pending and interim actions on pending cases, and input update and close-out actions on case files as they occur.

USERS:

1 Land & Mineral Operations Branch Chief, 1 Land Operations Chief, 1 Access Staff Chief, 1 Conveyance Examiner, and 2 Land Law Examiners.

LEVEL OF USE:

Estimated use is 3-4 hours per day, upon installation.

EXISTING EQUIPMENT:

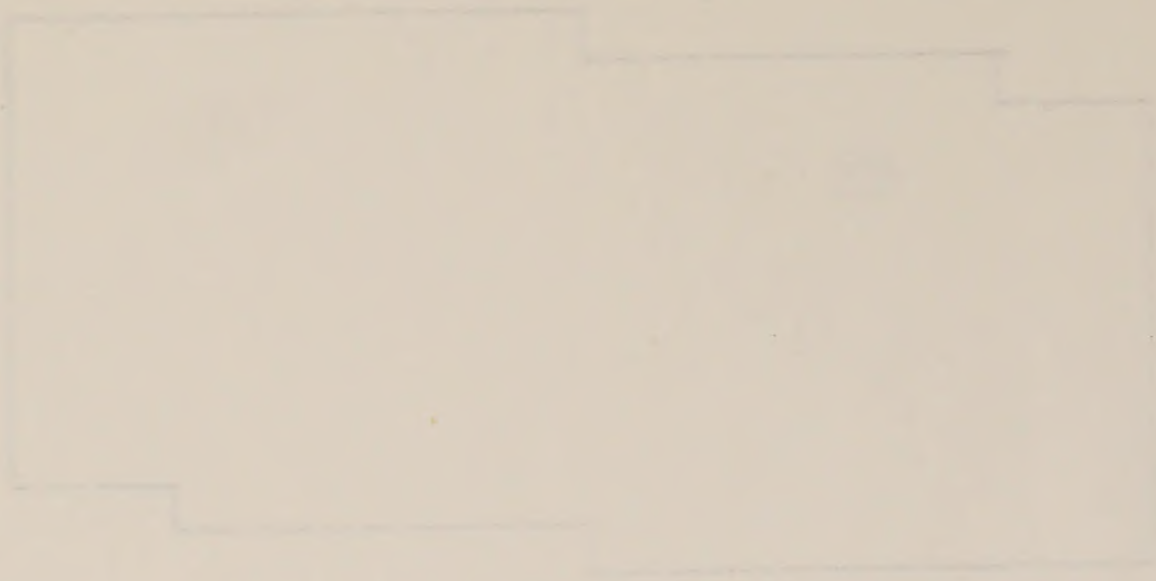
1 Terminal, 1 Printer (TP)

ADDITIONAL EQUIPMENT NEEDED:

Priority 1: None  
Priority 2: None  
Priority 3: None

ADDITIONAL COMMENTS:





The first of these is the fact that the...  
...the second is the fact that the...  
...the third is the fact that the...  
...the fourth is the fact that the...  
...the fifth is the fact that the...  
...the sixth is the fact that the...  
...the seventh is the fact that the...  
...the eighth is the fact that the...  
...the ninth is the fact that the...  
...the tenth is the fact that the...

It is a common mistake to think that...  
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The fourth of these is the fact that the...  
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The fifth of these is the fact that the...  
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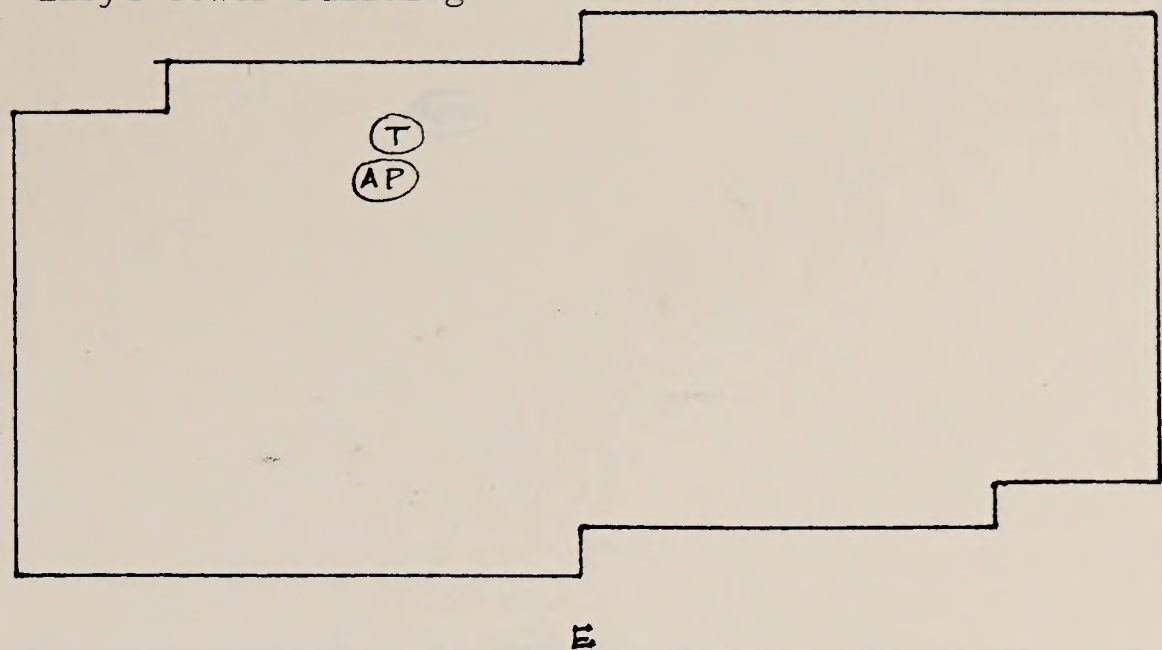
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The eighth of these is the fact that the...  
...the ninth is the fact that the...

The ninth of these is the fact that the...  
...the tenth is the fact that the...





Division of Operations

- Withdrawal Review -

NEED:

This office is responsible for the adjudication and review of all federal agency withdrawals in Oregon and Washington. This unit has taken inventory of all withdrawals, classifications, and revocation/restoration cases; and begun the review process as required by FLPMA. In addition to adjudication, this office audits case record data, produces state-wide progress and status reports, maintains case call-up tickler files, answers public and interagency inquiries about case-specific actions, and coordinates with BLM and other agency offices for multiple use management purposes. This staff verifies initial case data entry, enters pending and interim actions for pending cases, and inputs update and case close-out actions as they occur.

USERS:

1 Withdrawal Review Chief, 2 Land Law Examiners, 2 Realty Specialists.

LEVEL OF USE:

1 Terminal 1-2 hours per day.

EXISTING EQUIPMENT:

1 Terminal (T)

ADDITIONAL EQUIPMENT NEEDED:

Priority 1: 1 Printer (AP)

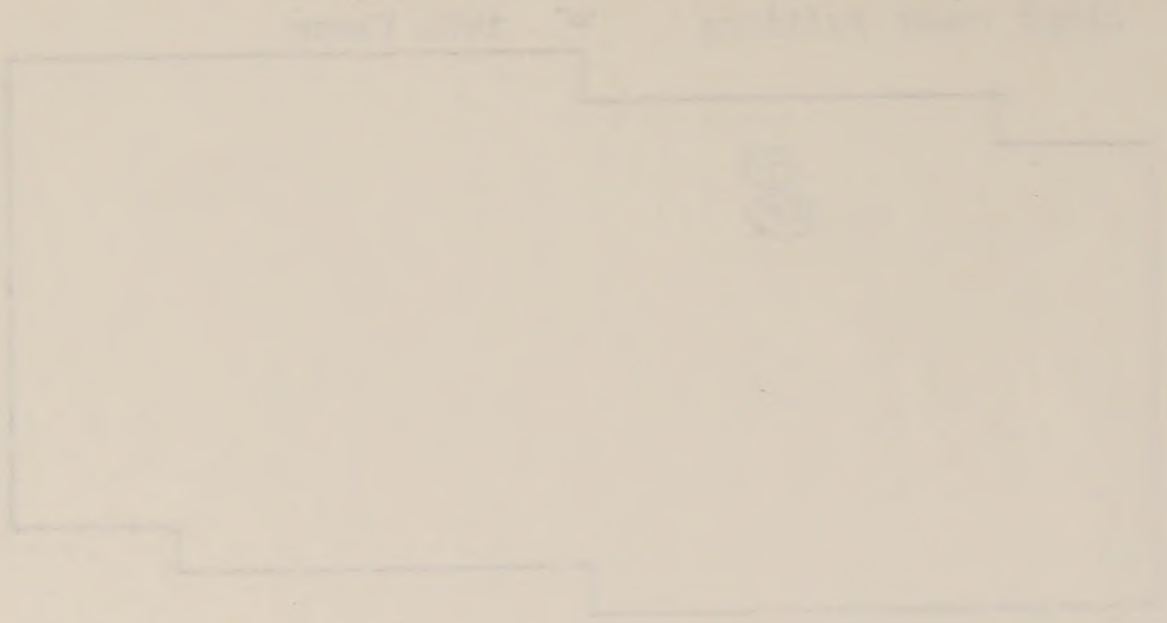
Priority 2: None

Priority 3: None

ADDITIONAL COMMENTS:

Printer is needed for audit and reporting purposes. Less than 5% of the withdrawal and classification cases have been input to date; terminal usage and need for a printer will grow in proportion to expanding database.





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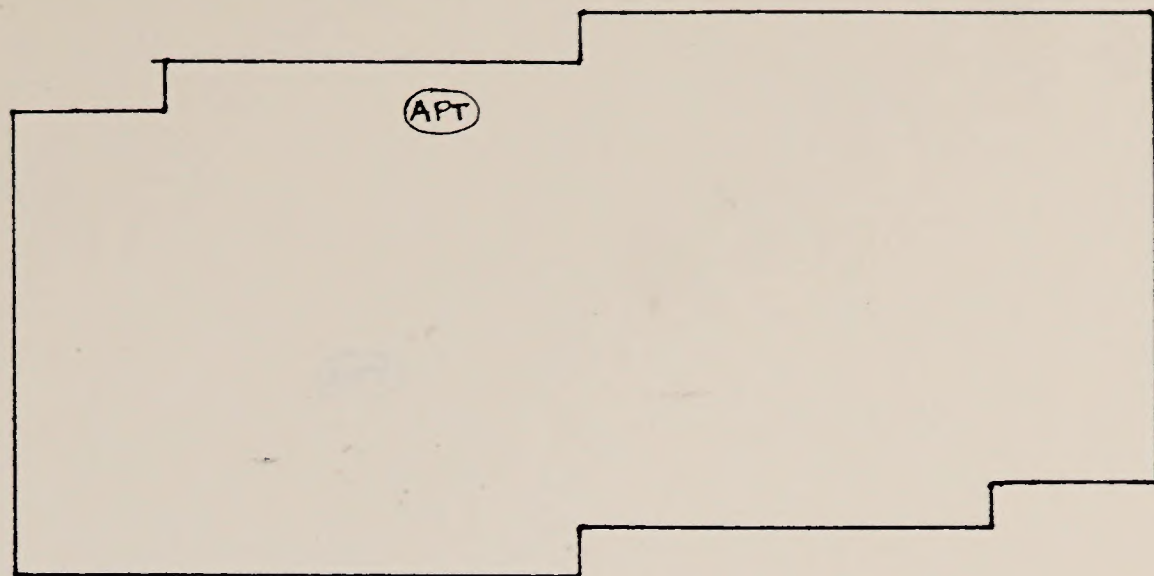
Page 1 of 1  
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Division of Operations  
- Appraisal Staff -

NEED:

This office has the appraisal and review authority for all BLM<sup>E</sup> lands cases in Oregon and Washington. The staff would review current land case loads for the scheduling of work assignments, review recent appraisals and current rate changes, update appraisal information in land case files, input and verify initial values or changes.

USERS:

1 Appraisal Staff Chief, 2 Appraisers

LEVEL OF USE:

Estimated use is 1-2 hours per day, when installed.

EXISTING EQUIPMENT:

None

ADDITIONAL EQUIPMENT NEEDED:

Priority 1: None

Priority 2: None

Priority 3: 1 Terminal, 1 Printer (APT)

ADDITIONAL COMMENTS:

Installation will occur with the integration of case recordation, survey and land status databases.







Division of Operations  
- Cadastral Survey -

S

APT

E

NEED:

This office is responsible for all cadastral survey in Oregon and Washington, including reimbursable work for other federal agencies. This office also produces, reviews, distributes and maintains cadastral survey records in the form of plats, notes and special instructions. The original survey database was compiled by the Records Improvement Project in 1978-1979. This staff will continually update the existing database when new surveys are approved, correct existing records and make the appropriate adjustments for jurisdictional changes.

USERS:

2 Cartographic Technicians

LEVEL OF USE:

2-3 hours per week under normal circumstances

EXISTING EQUIPMENT:

1 Terminal (see comment)

ADDITIONAL EQUIPMENT:

Priority 1: 1 (replacement) Terminal, 1 Printer APT

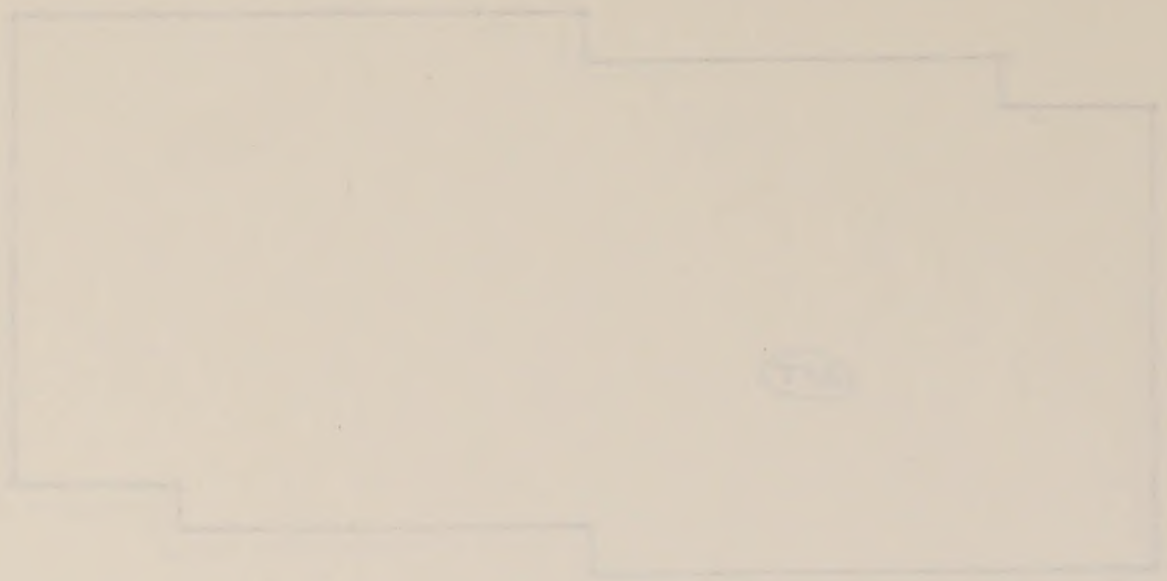
Priority 2: None

Priority 3: None

ADDITIONAL COMMENTS:

The existing VIP 7200 terminal will be replaced with a Tannberg and Tally Printer after downloading of the survey database.





Division of Reclamation  
Salt Lake City, Utah

This office is responsible for the collection, storage, and distribution of water resources data. This office also provides technical assistance to the various water users in the State of Utah. The office is located in the Salt Lake City area and is responsible for the collection and distribution of water resources data. This office is also responsible for the collection and distribution of water resources data. This office is also responsible for the collection and distribution of water resources data.

Division of Reclamation  
Salt Lake City, Utah

Division of Reclamation  
Salt Lake City, Utah

Division of Reclamation  
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Salt Lake City, Utah

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Salt Lake City, Utah

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Salt Lake City, Utah

Division of Reclamation  
Salt Lake City, Utah

The following information was obtained from the records of the Division of Reclamation, Salt Lake City, Utah. This information was obtained from the records of the Division of Reclamation, Salt Lake City, Utah. This information was obtained from the records of the Division of Reclamation, Salt Lake City, Utah.



Division of Mineral Resources

S

APT

N

NEED:

E

This office is responsible for the management of all federal mineral resources in Oregon and Washington; primarily policy development, budget allocations, and resource inventory and evaluation. The staff will monitor and update specific mineral case types, particularly post-authorization leases. The unit has potential for tracking mineral resource uses on federal lands by monitoring mining claims, mineral leases, prospecting permits mineral patent applications, withdrawals, protected areas and permitting systems.

USERS:

Mineral Specialists in the Division.

LEVEL OF USE:

Estimated use is 3-4 hours a day, upon installation.

EXISTING EQUIPMENT:

None

ADDITIONAL EQUIPMENT NEEDED:

Priority 1: None

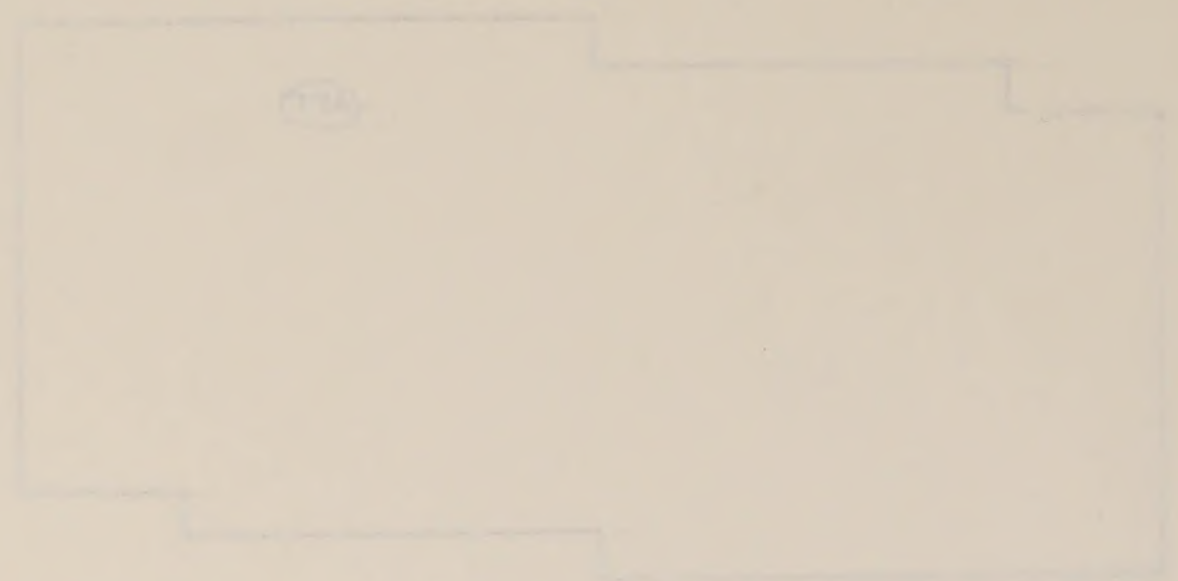
Priority 2: 1 Terminal, 1 Printer APT

Priority 3: None

ADDITIONAL COMMENTS:

Installation will occur with the integration of case recordation and survey databases, and the initiation of land status collection.





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This is a very faint, illegible block of text, possibly a title or a short paragraph.

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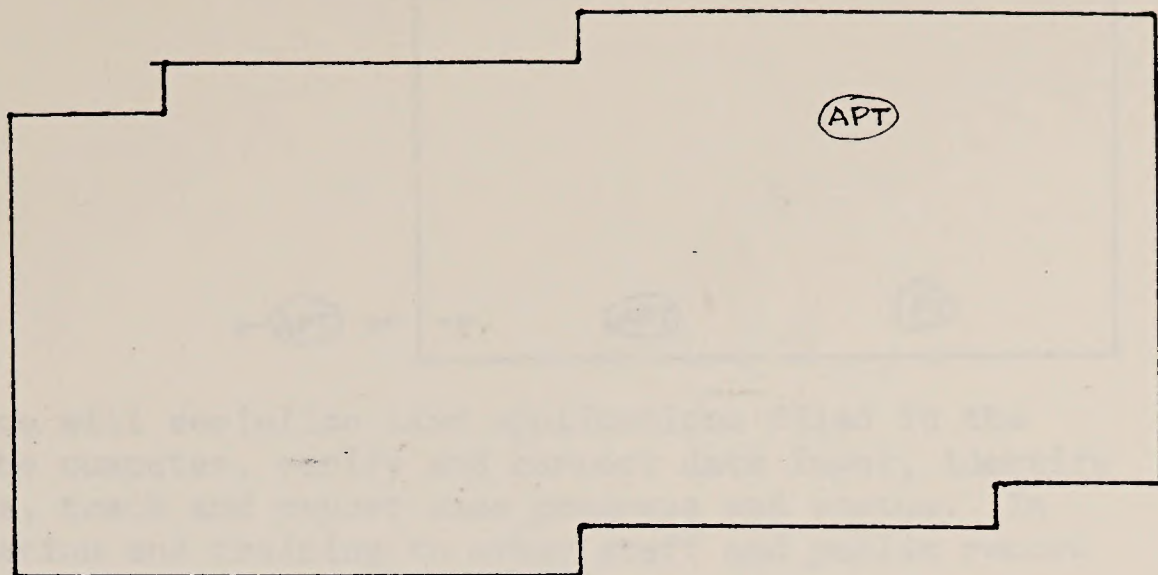
Page 1 of 1

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Division of Lands and  
Renewable Resources

S



N

NEED:

This office is responsible for the management of all BLM land and renewable resources in Oregon and Washington; primarily policy development, budget allocations, resource inventory and evaluation, and program direction and review. The staff will monitor and update specific land case types such as trespass, grants, permits and leases. This unit has potential for tracking other resource management values on federal lands by monitoring rights-of-way, lease and permitting systems, protected areas, wilderness, withdrawal review, and mining activity in key environmental areas.

USERS:

Resource Specialists in the Division.

LEVEL OF USE:

Estimated use is 2-3 hours a day, upon installation.

EXISTING EQUIPMENT:

None

ADDITIONAL EQUIPMENT NEEDS:

Priority 1: None

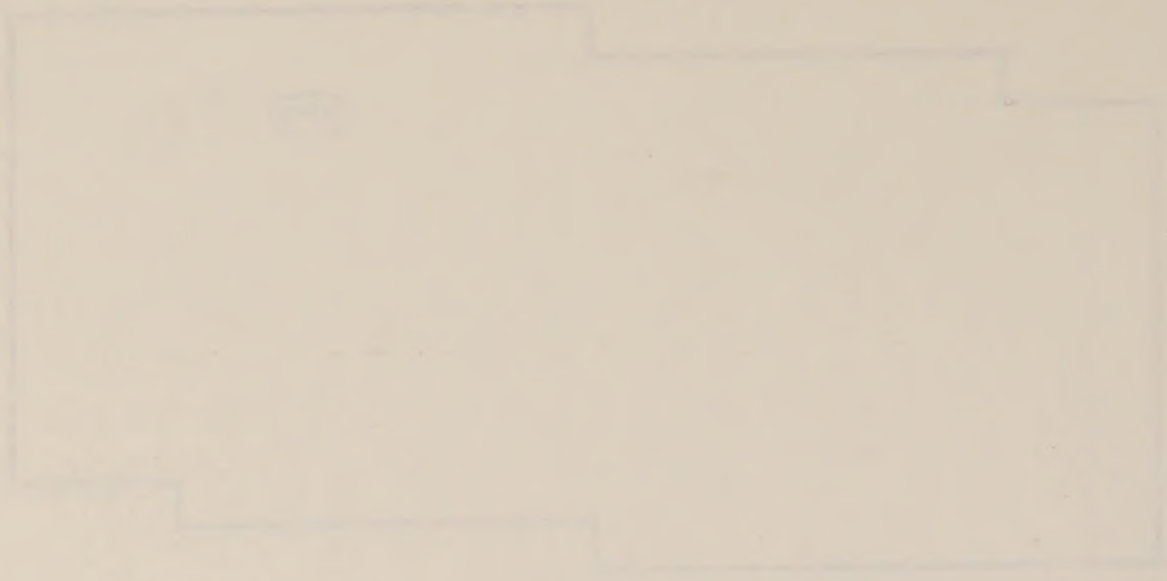
Priority 2: None

Priority 3: 1 Terminal, 1 Printer (APT)

ADDITIONAL COMMENTS:

Installation will occur with the integration of case recordation, survey and land status databases.





The following is a summary of the results of the investigation of the effect of the treatment of the soil on the growth of the plants. The results show that the treatment of the soil has a significant effect on the growth of the plants. The plants grown in the treated soil show a higher growth rate than those grown in the untreated soil. This is due to the fact that the treatment of the soil increases the availability of nutrients to the plants. The results of the investigation are as follows:

1. The growth rate of the plants is significantly higher in the treated soil than in the untreated soil.

2. The plants grown in the treated soil show a higher growth rate than those grown in the untreated soil.

3. The treatment of the soil has a significant effect on the growth of the plants.

4. The results of the investigation are as follows:

5. The growth rate of the plants is significantly higher in the treated soil than in the untreated soil.

6. The plants grown in the treated soil show a higher growth rate than those grown in the untreated soil.

7. The treatment of the soil has a significant effect on the growth of the plants.

8. The results of the investigation are as follows:

9. The growth rate of the plants is significantly higher in the treated soil than in the untreated soil.

10. The plants grown in the treated soil show a higher growth rate than those grown in the untreated soil.



← APT or

→

APT

PT

## NEEDS:

Realty & Records Staff\*- This office will serialize land applications filed in the district, code and enter data to the computer, verify and correct data input, identify suitability and conflicting filings, track and report case progress and status. In addition, they will provide orientation and training to other staff and public record users; respond to public and other agency requests for case status and reports.

Resource Management - The future integration of the present case recordation system with the survey and land status databases will give resource specialists and managers a tool to monitor specific case types, trends in public resource uses, activity in sensitive environmental areas, and rapidly report or display that information.

## USERS:

Resource Specialists, Management and the Public.

## LEVEL OF USE:

Estimated use is 2-3 hours per day by the public if mining claims is downloaded, 1-2 hours if it isn't; 3-4 hours per day by staff, upon installation.

## EXISTING EQUIPMENT:

1 Terminal, 1 Printer awaiting installation of communication network

PT

## ADDITIONAL EQUIPMENT NEEDED:

Priority 1: None

Priority 2: 1 Terminal, 1 Printer

Priority 3: None

## ADDITIONAL COMMENTS:

Two Resource Area offices are presently located in another building several blocks away, so an additional terminal and printer is necessary for effective operations. If all staff are consolidated into a single building, the additional terminal and printer will be located in a separate public room.

\*Because the first installation of equipment must serve both areas of responsibility these functions are viewed together; though most districts and resource areas locate realty personnel in Resources, and recordkeeping and public contact positions in Administration.





The Board of Directors of the Company has the honor to acknowledge the receipt of the report of the President and the report of the various departments of the Company for the year ending December 31, 1911. The report of the President is a most interesting and valuable one, and the reports of the various departments are also of great interest and value. The Board is pleased to note the progress made during the year, and the successful completion of the various projects and plans. The Board is confident that the Company will continue to prosper and grow in the future.

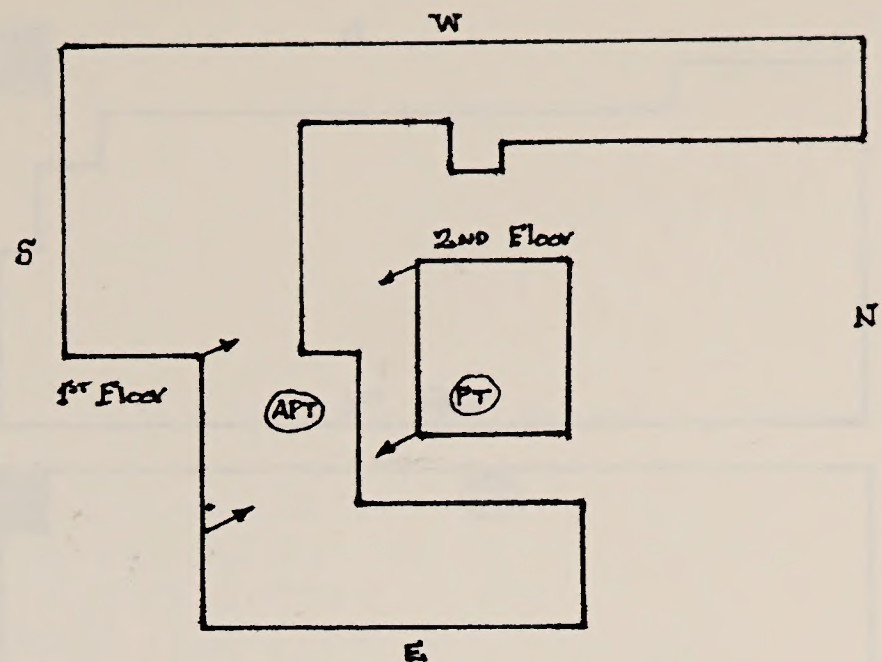
The Board of Directors has also received the report of the various committees and sub-committees of the Board. These reports are also of great interest and value, and the Board is pleased to note the progress made during the year. The Board is confident that the Company will continue to prosper and grow in the future.

The Board of Directors has also received the report of the various departments of the Company for the year ending December 31, 1911. The report of the President is a most interesting and valuable one, and the reports of the various departments are also of great interest and value. The Board is pleased to note the progress made during the year, and the successful completion of the various projects and plans. The Board is confident that the Company will continue to prosper and grow in the future.

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#### NEEDS:

Realty & Records Staff\*- This office will serialize land applications filed in the district, code and enter data to the computer, verify and correct data input, identify suitability and conflicting filings, track and report case progress and status. In addition, they will provide orientation and training to other staff and public record users; respond to public and other agency requests for case status and reports.

Resource Management - The future integration of the present case recordation system with the survey and land status databases will give resource specialists and managers a tool to monitor specific case types, trends in public resource uses, activity in sensitive environmental areas, and rapidly report or display that information.

#### USERS:

Resource Specialists, Management and the Public.

#### LEVEL OF USE:

Estimated use is 2-3 hours per day by the public and 3-4 hours per day by the staff upon installation.

#### EXISTING EQUIPMENT:

1 Terminal, 1 Printer awaiting installation of communication network.

#### ADDITIONAL EQUIPMENT NEEDED:

- Priority 1: None
- Priority 2: 1 Terminal, 1 Printer
- Priority 3: None

#### ADDITIONAL COMMENTS:

An expanding case recordation database and the downloading of survey and mining claims is expected to significantly increase public and staff demands for record access and reports.

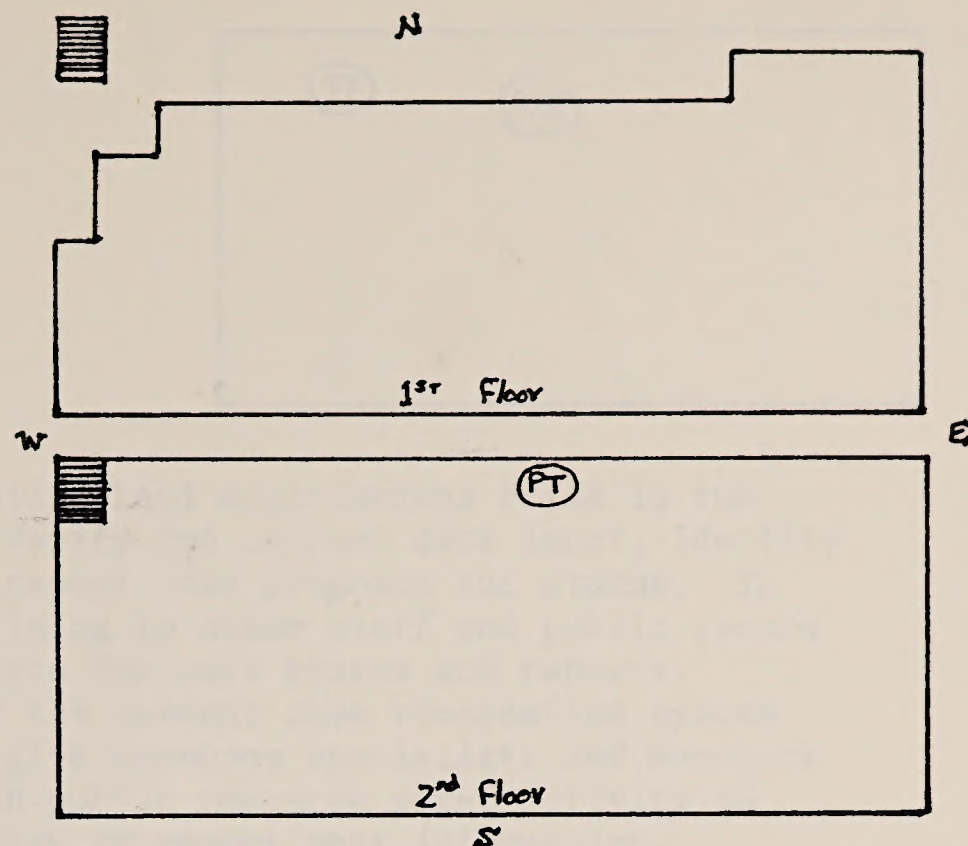
\*Because the first installation of equipment must serve both areas of responsibility, these functions are viewed together; though most districts and resource areas locate realty personnel in Resources, and the recordkeeping and public contact positions in Administration.







## EUGENE DISTRICT ANALYSIS



### NEEDS:

Realty & Records Staff\*- This office will serialize land applications filed in the district, code and enter data to the computer, verify and correct data input, identify suitability and conflicting filings, track and report case progress and status. In addition, they will provide orientation and training to other staff and public record users; respond to public and other agency requests for case status and reports.

Resource Management - The future integration of the present case recordation system with the survey and land status databases will give resource specialists and managers a tool to monitor specific case types, trends in public resource uses, activity in sensitive environmental areas, and rapidly report or display that information.

### USERS:

Resource Specialists, Management and the Public.

### LEVEL OF USE:

Estimated use is 1-2 hours a day by the public, 2-3 hours a day by the staff upon installation.

### EXISTING EQUIPMENT:

1 Terminal, 1 Printer awaiting installation of communication network. (TP)

### ADDITIONAL EQUIPMENT NEEDED:

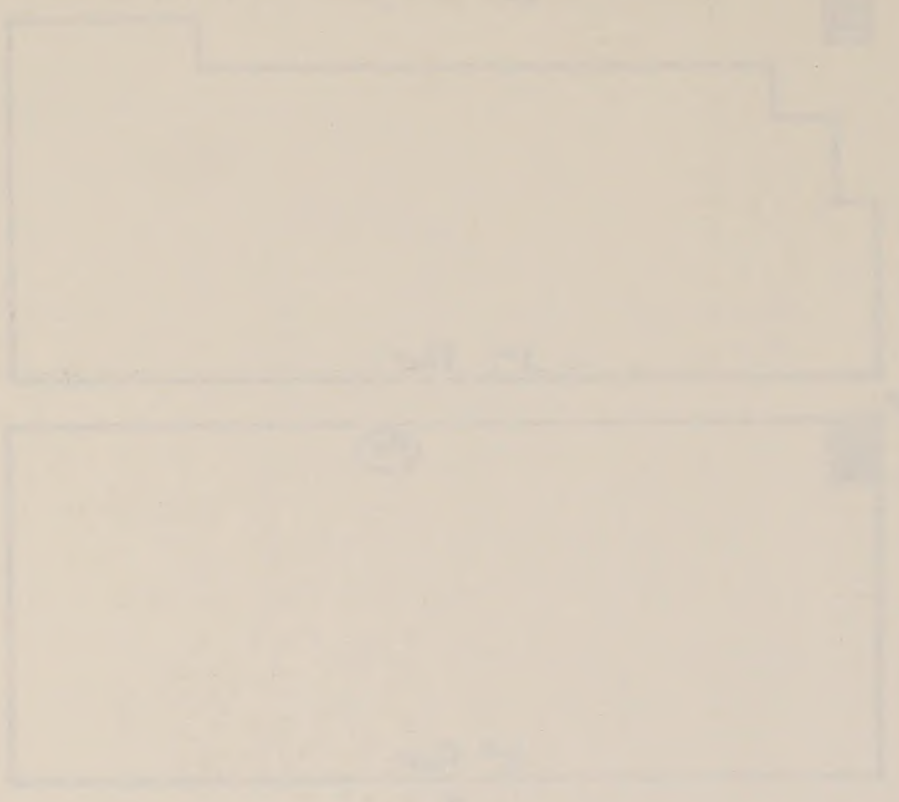
Priority 1: None  
Priority 2: None  
Priority 3: None

### ADDITIONAL COMMENTS:

Mining claim and land status inquiries have been very low and no significant increase is anticipated with the installation of a terminal in the district.

\*Because the first installation of equipment must serve both areas of responsibility these functions are viewed together; though most districts and resource areas locate realty personnel in Resources, and recordkeeping and public contact positions in Administration.





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the second is the fact that the...  
the third is the fact that the...  
the fourth is the fact that the...  
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the seventeenth is the fact that the...  
the eighteenth is the fact that the...  
the nineteenth is the fact that the...  
the twentieth is the fact that the...



TP

ATP

## NEEDS:

Realty & Records Staff\*- This office will serialize land applications filed in the district, code and enter data to the computer, verify and correct data input, identify suitability and conflicting filings, track and report case progress and status. In addition, they will provide orientation and training to other staff and public record users; respond to public and other agency requests for case status and reports.

Resource Management - The future integration of the present case recordation system with the survey and land status databases will give resource specialists and managers a tool to monitor specific case types, trends in public resource uses, activity in sensitive environmental areas, and rapidly display or report that information.

## USERS:

Resource Specialists, Management and the Public

## LEVEL OF USE:

Estimated use is 5-6 hours per day upon installation

## EXISTING EQUIPMENT:

1 Terminal, 1 Printer awaiting installation of communication network TP

## ADDITIONAL EQUIPMENT NEEDED:

Priority 1: None

Priority 2: 1 Terminal, 1 Printer ATP

Priority 3: None

## ADDITIONAL COMMENTS:

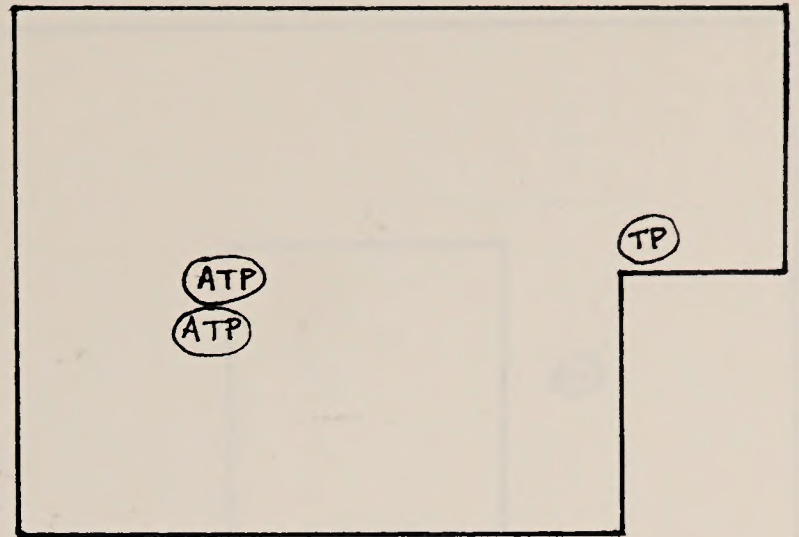
Availability of case recordation status and reports is expected to significantly increase demand for terminal access. In particular, downloading survey and mining claim databases would double anticipated public demand for record access. Second terminal and printer would be located in public room to free first one for staff use.

\*Because the first installation of equipment must serve both areas of responsibility, these functions are viewed together; though most districts and resource areas locate realty personnel in Resources, and the recordkeeping and public contact positions in Administration.









NEEDS:

Realty & Records Staff\*- This office will serialize land applications filed in the district, code and enter data to the computer, verify and correct data input, identify suitability and conflicting filings, track and report case progress and status. In addition, they will provide orientation and training to other staff and public record users; respond to public and other agency requests for case status and reports.

Resource Management - The future integration of the present case recordation system with the survey and land status databases will give resource specialists and managers a tool to monitor specific case types, trends in public resource uses, activity in sensitive environmental areas, and rapidly report or display that information.

USERS:

Resource Specialists, Management and the Public

LEVEL OF USE:

Estimated use will be 8+ hours per day upon installation

EXISTING EQUIPMENT:

1 Terminal, 1 Printer awaiting installation of communication network TP

ADDITIONAL EQUIPMENT NEEDED:

Priority 1: None

Priority 2: 1 Terminal, 1 Printer ATP

Priority 3: 1 Terminal, 1 Printer ATP

ADDITIONAL COMMENTS:

Existing equipment is adjudged inadequate to meet even present demands for case access and reports. With current record demands of the public, an additional terminal and printer in the public room is needed to ensure sufficient access to the database by public and staff alike. With downloading of survey and mining claim records, another terminal and printer are needed for lands and minerals staff to update records and retrieve reports.

\*Because the first installation of equipment must serve both areas of responsibility these functions are viewed together; though most districts and resource areas locate realty personnel in Resources, and the recordkeeping and public contact positions in Administration.





The first step in the process is to identify the areas of interest. This is done by looking at the diagram and identifying the areas that are labeled with a circled '1' and a circled '2'. The area labeled with a circled '1' is the area of interest for the first step, and the area labeled with a circled '2' is the area of interest for the second step.

Next

The second step in the process is to identify the areas of interest.

Finally

The third step in the process is to identify the areas of interest.

Finally

The fourth step in the process is to identify the areas of interest.

Finally

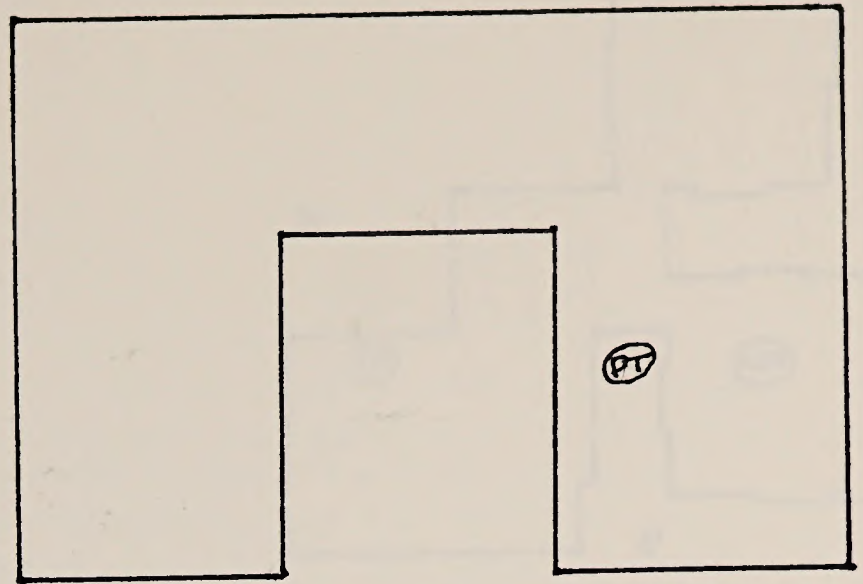
The fifth step in the process is to identify the areas of interest.

Finally

The sixth step in the process is to identify the areas of interest. This is done by looking at the diagram and identifying the areas that are labeled with a circled '1' and a circled '2'. The area labeled with a circled '1' is the area of interest for the first step, and the area labeled with a circled '2' is the area of interest for the second step.

The seventh step in the process is to identify the areas of interest. This is done by looking at the diagram and identifying the areas that are labeled with a circled '1' and a circled '2'. The area labeled with a circled '1' is the area of interest for the first step, and the area labeled with a circled '2' is the area of interest for the second step.





NEEDS:

Realty & Records Staff\*- This office will serialize land applications filed in the district, code and enter data to the computer, verify and correct data input, identify suitability and conflicting filings, track and report case progress and status. In addition, they will provide orientation and training to other staff and public record users; respond to public and other agency requests for case status and reports.

Resource Management - The future integration of the present case recordation system with the survey and land status databases will give resource specialists and managers a tool to monitor specific case types, trends in public resource uses, activity in sensitive environmental areas, and rapidly report or display that information.

USERS:

Resource Specialists, Management and the Public

LEVEL OF USE:

Estimated use will be 1-2 hours per day by public, 2-3 hours per day by staff upon installation.

EXISTING EQUIPMENT:

1 Terminal, 1 Printer awaiting installation of communication network (PT)

ADDITIONAL EQUIPMENT NEEDED:

Priority 1: None  
Priority 2: None  
Priority 3: None

ADDITIONAL COMMENTS:

Availability of terminal to the public and/or downloading of survey and mining claims is not expected to significantly increase public or staff demands for record access reports.

\*Because the first installation of equipment must serve both areas of responsibility, these functions are viewed together; though most districts and resource areas locate realty personnel in Resources and the recordkeeping and public contact positions in Administration.





During a recent study, this office will continue last year's study of the  
classroom, and will make data on the classroom, teacher, and student behavior.  
The study will be a continuing effort, and will be made in the future.  
The study will be a continuing effort, and will be made in the future.  
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The study will be a continuing effort, and will be made in the future.

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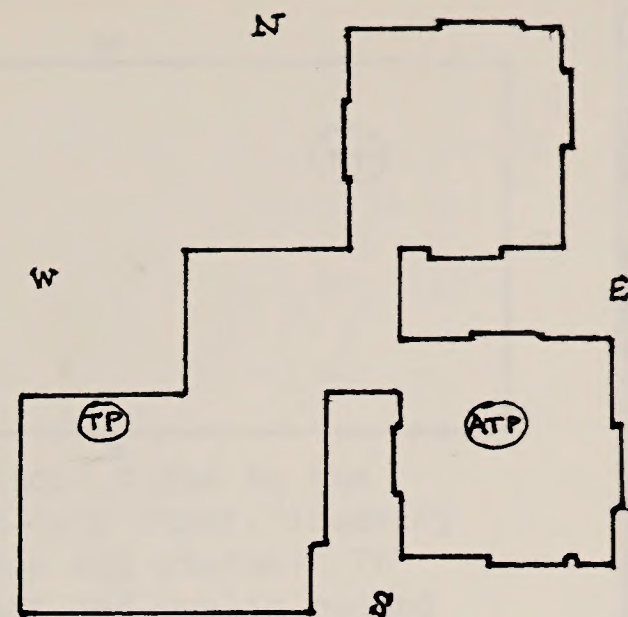
During the study, the study will be made in the future.

The study will be a continuing effort, and will be made in the future.

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NEEDS:

Realty & Records Staff\*- This office will serialize land applications filed in the district, code and enter data to the computer, verify and correct data input, identify suitability and conflicting filings, track and report case progress and status. In addition, they will provide orientation and training to other staff and public record users; respond to public and other agency requests for case status and reports.

Resource Management - The future integration of the present case recordation system with the survey and land status databases will give resource specialists and managers a tool to monitor specific case types, trends in public resource uses, activity in sensitive environmental areas, and rapidly display or report that information.

USERS:

Resource Specialists, Management and the Public.

LEVEL OF USE:

Estimated use is 3-4 hours per day upon installation

EXISTING EQUIPMENT

1 Terminal, 1 Printer awaiting installation of communication network

ADDITIONAL EQUIPMENT NEEDED:

Priority 1: None

Priority 2: None

Priority 3: 1 Terminal, 1 Printer

ADDITIONAL COMMENTS:

Public land status and mining claim record requests are at a low level. Installation of a terminal is expected to have a gradually increasing impact on the number of inquiries received.

\*Because the first installation of equipment must serve both areas of responsibility these functions are viewed together; though most districts and resource areas locate realty specialists in Resources and the recordkeeping and public contact positions in Administration.





Figure 1

The first part of the report describes the general characteristics of the system. It is a system of interconnected blocks, each of which is a rectangular block. The blocks are arranged in a stepped fashion, with some labeled with numbers like 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

Figure 2

The second part of the report describes the general characteristics of the system.

The third part of the report describes the general characteristics of the system.

The fourth part of the report describes the general characteristics of the system.

The fifth part of the report describes the general characteristics of the system.

The sixth part of the report describes the general characteristics of the system.

The seventh part of the report describes the general characteristics of the system.

The eighth part of the report describes the general characteristics of the system.

The ninth part of the report describes the general characteristics of the system.

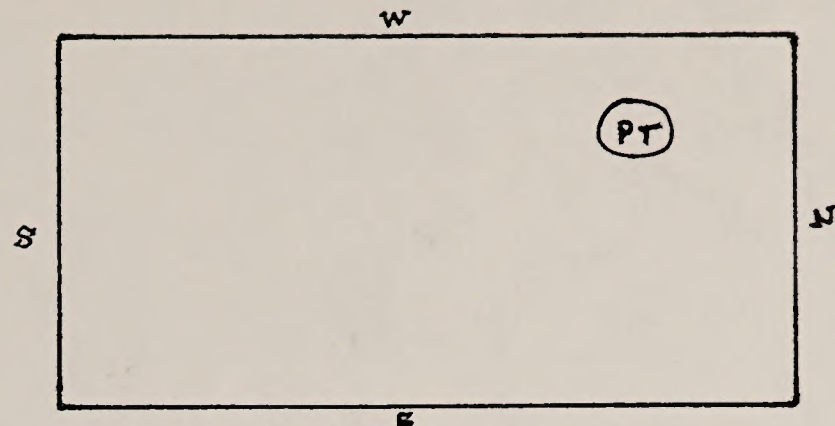
The tenth part of the report describes the general characteristics of the system.

The eleventh part of the report describes the general characteristics of the system.

The twelfth part of the report describes the general characteristics of the system.

The thirteenth part of the report describes the general characteristics of the system.





NEEDS:

Realty & Records Staff\*- This office will serialize land applications filed in the district, code and enter data to the computer, verify and correct data input, identify suitability and conflicting filings, track and report case progress and status. In addition, they will provide orientation and training to other staff and public record users; respond to public and other agency requests for case status and reports. Resource Management - The future integration of the present case recordation system with the survey and land status databases will give resource specialists and managers a tool to monitor specific case types, trends in public resource uses, activity in sensitive environmental areas, and rapidly display or report that information.

USERS:

Resource Specialists, Management and the Public.

LEVEL OF USE:

Estimated use is 3-4 hours per day upon installation

EXISTING EQUIPMENT:

1 Terminal, 1 Printer awaiting installation of communication network. (TP)

ADDITIONAL EQUIPMENT NEEDED:

Priority 1: None  
Priority 2: None  
Priority 3: None

ADDITIONAL COMMENTS:

Public mining claim and land status inquiries have been very low and no significant increase is anticipated with the installation of a terminal in the district.

\*Because the first installation of equipment must serve both areas of responsibility these functions are viewed together; though most districts and resource areas locate realty personnel in Resources and recordkeeping and public contact positions in Administration.







TP

ATP

NEEDS:

Realty & Records Staff\*- This office will serialize land applications filed in the district, code and enter data to the computer, verify and correct data input, identify suitability and conflicting filings, track and report case progress and status. In addition, they will provide orientation and training to other staff and public record users; respond to public and other agency requests for case status and reports.

Resource Management - The future integration of the present case recordation system with the survey and land status databases will give resource specialists and managers a tool to monitor specific case types, trends in public resource uses, activity in sensitive environmental areas, and rapidly display and report that information.

USERS:

Resource Specialists, Management and the Public

LEVEL OF USE:

Estimated use is 4-5 hours a day upon installation

EXISTING EQUIPMENT:

1 Terminal, 1 Printer awaiting installation of communication network TP

ADDITIONAL EQUIPMENT NEEDED:

Priority 1: None

Priority 2: 1 Terminal, 1 Printer ATP

Priority 3: None

ADDITIONAL COMMENTS:

Public demand for terminal access will increase as availability becomes known, in particular, the downloading of mining claim database would have significant impact on public computer access.

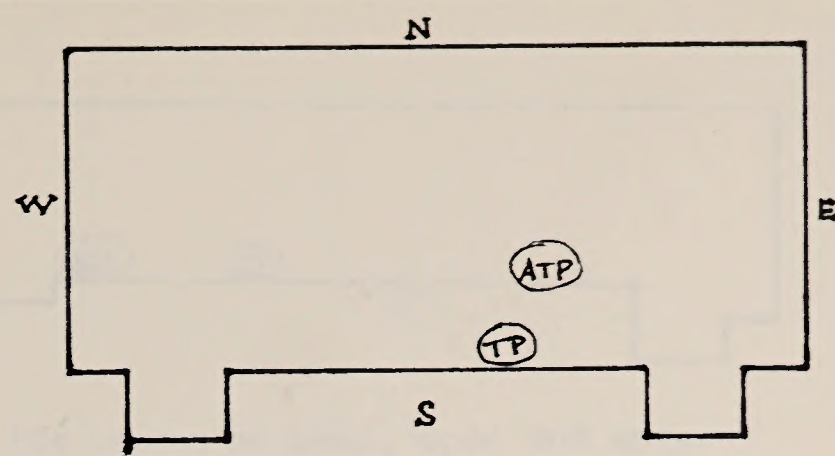
\*Because the first installation of equipment must serve both areas of responsibility, these functions are viewed together; though most districts and resource areas located realty personnel in Resources, and the recordkeeping and public contact positions in Administration.







# VALE DISTRICT OFFICE ANALYSIS



## NEEDS:

Realty & Records Staff\*- This office will serialize land applications filed in the district, code and enter data to the computer, verify and correct data input, identify suitability and conflicting filings, track and report case progress and status. In addition, they will provide orientation and training to other staff and public record users; respond to public and other agency requests for case status and reports.

Resource Management - The future integration of the present case recordation system with the survey and land status databases will give resource specialists and managers a tool to monitor specific case types, trends in public resource uses, activity in sensitive environmental area, and rapidly report or display that information.

## USERS:

Resource Specialists, Management and the Public.

## LEVEL OF USE:

Estimated use is 5-6 hours a day upon installation.

## EXISTING EQUIPMENT:

1 Terminal, 1 Printer awaiting installation of communication network (TP)

## ADDITIONAL EQUIPMENT NEEDED:

Priority 1: None

Priority 2: 1 Terminal, 1 Printer (ATP)

Priority 3: None

## ADDITIONAL COMMENTS:

Availability of terminal for case access and reports is expected to increase public and other staff demands for use; in particular, downloading of survey and mining claims will dramatically increase demands for records access. With land status collection to begin in southeastern Oregon, future needs for title and use records will necessitate an additional terminal and printer at an early date.

\*Because the first installation of equipment must serve both areas of responsibility, these functions are viewed together; though most districts and resource areas locate realty personnel in Resources, and the recordkeeping and public contact positions in Administration.



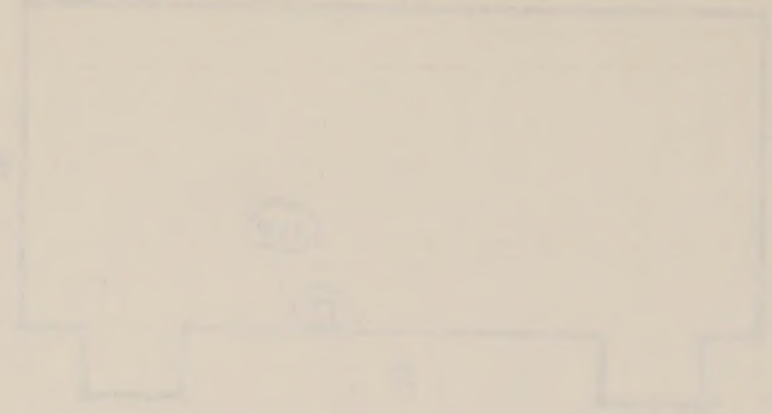


FIGURE 1

The diagram shows a cross-section of a structure with a stepped base. The main body is rectangular, and the base has several rectangular protrusions of varying heights. The diagram is labeled with 'FIGURE 1' and 'THE UNIVERSITY OF MICHIGAN'.

FIGURE 2

The diagram shows a cross-section of a structure with a stepped base. The main body is rectangular, and the base has several rectangular protrusions of varying heights. The diagram is labeled with 'FIGURE 2' and 'THE UNIVERSITY OF MICHIGAN'.

The diagram shows a cross-section of a structure with a stepped base. The main body is rectangular, and the base has several rectangular protrusions of varying heights. The diagram is labeled with 'FIGURE 3' and 'THE UNIVERSITY OF MICHIGAN'.

FIGURE 4

The diagram shows a cross-section of a structure with a stepped base. The main body is rectangular, and the base has several rectangular protrusions of varying heights. The diagram is labeled with 'FIGURE 4' and 'THE UNIVERSITY OF MICHIGAN'.

FIGURE 5

The diagram shows a cross-section of a structure with a stepped base. The main body is rectangular, and the base has several rectangular protrusions of varying heights. The diagram is labeled with 'FIGURE 5' and 'THE UNIVERSITY OF MICHIGAN'.

FIGURE 6

The diagram shows a cross-section of a structure with a stepped base. The main body is rectangular, and the base has several rectangular protrusions of varying heights. The diagram is labeled with 'FIGURE 6' and 'THE UNIVERSITY OF MICHIGAN'.

The diagram shows a cross-section of a structure with a stepped base. The main body is rectangular, and the base has several rectangular protrusions of varying heights. The diagram is labeled with 'FIGURE 7' and 'THE UNIVERSITY OF MICHIGAN'.

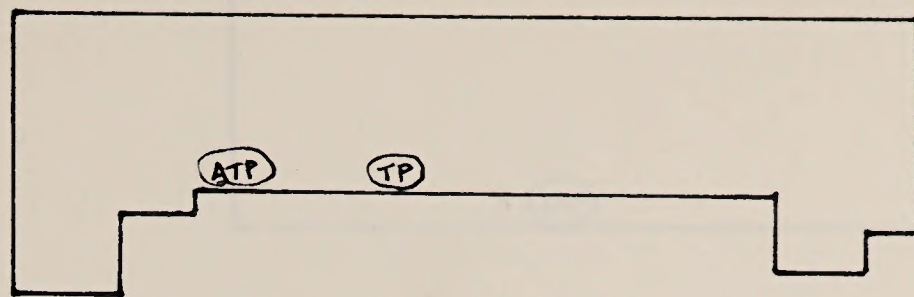
The diagram shows a cross-section of a structure with a stepped base. The main body is rectangular, and the base has several rectangular protrusions of varying heights. The diagram is labeled with 'FIGURE 8' and 'THE UNIVERSITY OF MICHIGAN'.

The diagram shows a cross-section of a structure with a stepped base. The main body is rectangular, and the base has several rectangular protrusions of varying heights. The diagram is labeled with 'FIGURE 9' and 'THE UNIVERSITY OF MICHIGAN'.

The diagram shows a cross-section of a structure with a stepped base. The main body is rectangular, and the base has several rectangular protrusions of varying heights. The diagram is labeled with 'FIGURE 10' and 'THE UNIVERSITY OF MICHIGAN'.



## BAKER RESOURCE AREA ANALYSIS



### NEEDS:

This office will serialize land applications filed in the resource area, code and enter data to the computer, verify and correct data input, identify suitability and conflicting filings, track and report case progress and status. In addition, they will provide orientation and training to other staff and public record users; respond to public and other agency requests for case status and reports. The future integration of the present case recordation system with the survey and land status databases will give resource specialists and managers a tool to monitor specific case types, trends in public resource uses, activity in sensitive environmental areas, and rapidly display or report that information.

### USERS:

Resource Specialists, Management and the Public.

### LEVEL OF USE:

Estimated use is 4-5 hours per day upon installation

### EXISTING EQUIPMENT:

1 Terminal, 1 Printer awaiting installation of communication network (TP)

### ADDITIONAL EQUIPMENT NEEDED:

Priority 1: None

Priority 2: 1 Terminal, 1 Printer (ATP)

Priority 3: None

### ADDITIONAL COMMENTS:

Baker is historically and currently an active mining area; the public has an active interest in land status and mining activity. Installation of a terminal for access to active case records and reports is expected to generate additional public demand for status and progress reports. In particular, if mining claim records are downloaded the level of public interest will be significantly greater.





This figure shows a schematic diagram of a rectangular structure with a horizontal line across the middle. On the left side, there is a vertical line segment. On the right side, there is a vertical line segment. The horizontal line is labeled with '100' and '200' in circles. The diagram is enclosed in a rectangular border.

Figure 1. Schematic diagram of the structure.

The diagram shows a rectangular structure with a horizontal line across the middle. On the left side, there is a vertical line segment. On the right side, there is a vertical line segment. The horizontal line is labeled with '100' and '200' in circles. The diagram is enclosed in a rectangular border.

Figure 2. Schematic diagram of the structure.

Figure 3. Schematic diagram of the structure.

Figure 4. Schematic diagram of the structure.

The diagram shows a rectangular structure with a horizontal line across the middle. On the left side, there is a vertical line segment. On the right side, there is a vertical line segment. The horizontal line is labeled with '100' and '200' in circles. The diagram is enclosed in a rectangular border.



PT

NEEDS:

This office will code and enter case file data to the computer, verify and correct data input, identify suitability and conflicting filings, track and report case progress and status. In addition, they will provide orientation and training to other staff and public record users; respond to public and other agency requests for case status and reports. The future integration of the present case recordation system with the survey and land status databases will give resource specialists and managers a tool to monitor specific case types, trends in public resource uses, activity in sensitive environmental areas, and rapidly display or report that information.

USERS:

Resource Specialists, Management and the Public.

LEVEL OF USE:

Estimated use is 2-3 hours per day upon installation

EXISTING EQUIPMENT

1 Terminal, 1 Printer awaiting installation of communication network (TP)

ADDITIONAL EQUIPMENT NEEDED:

Priority 1: None  
Priority 2: None  
Priority 3: None

ADDITIONAL COMMENTS:

Public mining claim and land status inquiries have been low and no significant increase is anticipated with the installation of a terminal in the resource area office.





1964

This office will accept for filing all documents, reports, and correspondence, including memoranda, letters, and other communications, in accordance with the provisions of the Freedom of Information Act, 5 U.S.C. 552, and Executive Order 11652, 30 FR 12319 (1965). The office will also accept for filing all documents, reports, and correspondence, including memoranda, letters, and other communications, in accordance with the provisions of the Freedom of Information Act, 5 U.S.C. 552, and Executive Order 11652, 30 FR 12319 (1965).

1964

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NEEDS:

This office will code and enter case file data to the computer, verify and correct data input, identify suitability and conflicting filings, track and respond to public and other agency requests for case progress and status. In addition, they will provide orientation and training to other staff and public resource users; respond to public and other agency requests for case status and reports. The future integration of the present case recordation system with the survey and land status databases will give resource specialists and managers a tool to monitor specific case types, trends in public resource uses, activity in sensitive environmental areas, and rapidly display or report that information.

USERS:

Resource Specialists, Management and the Public.

LEVEL OF USE:

Estimated use is 2-3 hours per day upon installation

EXISTING EQUIPMENT:

1 Terminal, 1 Printer awaiting installation of communication network (TP)

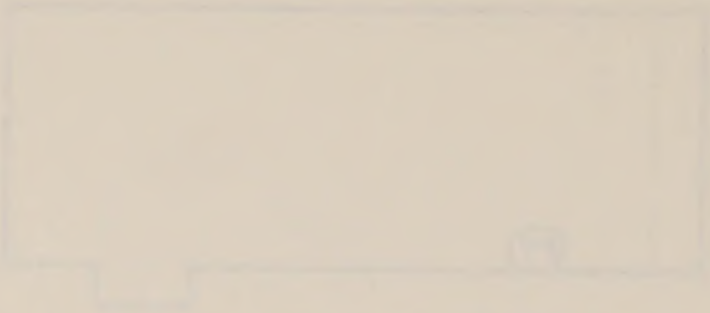
ADDITIONAL EQUIPMENT NEEDED:

Priority 1: None  
Priority 2: None  
Priority 3: None

ADDITIONAL COMMENTS:

Public mining claim and land status inquiries have been very low and no significant increase is anticipated with the installation of a terminal in the resource area office.





This report will cover the work done during the year 1961. It will include a summary of the work done, a list of the projects completed, and a list of the projects in progress. It will also include a list of the personnel who have worked on the projects, and a list of the equipment and materials used. The report will be submitted to the Board of Directors for their review and approval.

The work done during the year 1961 has been very successful. We have completed a number of projects, and we have made significant progress on a number of other projects. We have also been able to secure additional funding for our work, and we have been able to expand our staff. We are very pleased with the results of our work, and we are confident that we will continue to make significant progress in the future.

⑤ The work done during the year 1961 has been very successful. We have completed a number of projects, and we have made significant progress on a number of other projects. We have also been able to secure additional funding for our work, and we have been able to expand our staff. We are very pleased with the results of our work, and we are confident that we will continue to make significant progress in the future.

This report is submitted to the Board of Directors for their review and approval. It is the responsibility of the Board of Directors to ensure that the work done during the year 1961 has been successful, and that the organization is in a position to continue to make significant progress in the future.



TP

NEEDS:

This office will code and enter case file data to the computer, verify and correct data input, identify suitability and conflicting filings, track and respond to public and other agency requests for case progress and status. In addition, they will provide orientation and training to other staff and public resource users; respond to public and other agency requests for case status and reports. The future integration of the present case recordation system with the survey and land status databases will give resource specialists and managers a tool to monitor specific case types, trends in public resource uses, activity in sensitive environmental areas, and rapidly display or report that information.

USERS:

Resource Specialists, Management and the Public

LEVEL OF USE:

Estimated use is 2-3 hours per day upon installation

EXISTING EQUIPMENT:

1 Terminal, 1 Printer awaiting installation of communication network

TP

ADDITIONAL EQUIPMENT NEEDED:

Priority 1: None  
Priority 2: None  
Priority 3: None

ADDITIONAL COMMENTS:

Request from the public and other agencies have been very low and no significant increase is anticipated with the installation of a terminal in the resource area office.



10

10

This report was prepared by the author in accordance with the contract between the author and the Department of the Interior, Bureau of Reclamation, under the terms of which the author is to prepare a report on the results of the study of the water resources of the Colorado River Basin. The study was conducted in accordance with the plan of work approved by the Department of the Interior, Bureau of Reclamation, and the author is to prepare a report on the results of the study of the water resources of the Colorado River Basin. The study was conducted in accordance with the plan of work approved by the Department of the Interior, Bureau of Reclamation, and the author is to prepare a report on the results of the study of the water resources of the Colorado River Basin.

Department of the Interior, Bureau of Reclamation, Washington, D.C.

Submitted on 11-15-61 by the author.

Approved for release:

1. The study was conducted in accordance with the plan of work approved by the Department of the Interior, Bureau of Reclamation, and the author is to prepare a report on the results of the study of the water resources of the Colorado River Basin.

2. The study was conducted in accordance with the plan of work approved by the Department of the Interior, Bureau of Reclamation, and the author is to prepare a report on the results of the study of the water resources of the Colorado River Basin.

3. The study was conducted in accordance with the plan of work approved by the Department of the Interior, Bureau of Reclamation, and the author is to prepare a report on the results of the study of the water resources of the Colorado River Basin.

4. The study was conducted in accordance with the plan of work approved by the Department of the Interior, Bureau of Reclamation, and the author is to prepare a report on the results of the study of the water resources of the Colorado River Basin.

5. The study was conducted in accordance with the plan of work approved by the Department of the Interior, Bureau of Reclamation, and the author is to prepare a report on the results of the study of the water resources of the Colorado River Basin.

6. The study was conducted in accordance with the plan of work approved by the Department of the Interior, Bureau of Reclamation, and the author is to prepare a report on the results of the study of the water resources of the Colorado River Basin.

7. The study was conducted in accordance with the plan of work approved by the Department of the Interior, Bureau of Reclamation, and the author is to prepare a report on the results of the study of the water resources of the Colorado River Basin.



TABLE 1  
SUMMARY TABLE  
Terminals/Printer Needs  
Priority 1 Procurement

OFFICE	LOCATION	PRIME USERS	TERMINALS	PRINTERS
OSO	14th Floor	Records, Accts, Docket	0	1
	14th Floor	Mining Claims Record.	1	1/
		Public Room	0	1
		Mineral Leasing	1	1
	15th Floor	Withdrawal Review	0	1
		Mineral Resources	2/	1
	16th Floor	Cadastral Survey	1	1
		Mining Claims & Resources	1	1
Cook Bay		Mining Claims & Resources	1	4
Lakeview		Mining Claims & Resources	1	1
Medford		Mining Claims & Resources	1	1
Spokane		Mining Claims & Resources	1	1
Vale		Mining Claims & Resources	1	1
Vale (Baker Resource Area)		Mining Claims & Resources	1	1
			12	10

1/ One new Orion and two replacements.



TABLE 1  
SUMMARY TABLE  
Terminal/Printer Needs  
Priority 1 Procurement

OFFICE	LOCATION	PRIME USERS	TERMINALS	PRINTERS
020	14th Floor	Records, Access, Docker	0	1
		Public Room	0	1
		Withdrawal Review	0	1
	16th Floor	Cadastrol Survey	2/ 1	1
			1	4

1/ High Speed Printer  
2/ Replacement of VIB 7200



TABLE 2  
 SUMMARY TABLE  
 Term SUMMARY TABLE Needs  
 Terminals/Printer Needs  
 Priority 2 Procurement

<u>OFFICE</u>	<u>LOCATION</u>	<u>PRIME USERS</u>	<u>TERMINALS</u>	<u>PRINTERS</u>
OSO	14th Floor	Mining Claim Record.	3 <sup>1/</sup>	1
	16th Floor	Mineral Leasing Staff	1	1
Medford	15th Floor	Mineral Resources	1	1
Burns		Mining Claims & Resources	1	1
Coos Bay		Mining Claims & Resources	1	1
Lakeview		Mining Claims & Resources	1	1
Medford		Mining Claims & Resources	1	1
Spokane		Mining Claims & Resources	1	1
Vale		Mining Claims & Resources	1	1
Vale (Baker Resource Area)		Mining Claims & Resources	1	1
			<hr/> 12	<hr/> 10

1/ One new Omron and two replacements.



TABLE 2

SUMMARY TABLE  
Terminals/Printer Needs  
Priority 2 Procurement

OFFICE	LOCATION	PRIME USERS	TERMINALS	PRINTERS
OSO	14th floor	Mining Claim Record.	3	1
		Mineral Leasing	1	1
	15th floor	Mineral Resources	1	1
Burns		Mining Claims & Resources	1	1
Coos Bay		Mining Claims & Resources	1	1
Lakeview		Mining Claims & Resources	1	1
Medford		Mining Claims & Resources	1	1
Spokane		Mining Claims & Resources	1	1
Vale		Mining Claims & Resources	1	1
Vale (Baker Resource Area)		Mining Claims & Resources	1	1
			12	10

1/ One new Omron and two replacements.



TABLE 3  
SUMMARY TABLE  
Terminals/Printer Needs  
Priority 3 Procurement

<u>OFFICE</u>	<u>LOCATION</u>	<u>PRIME USERS</u>	<u>TERMINALS</u>	<u>PRINTERS</u>
<u>OFFICE</u>	<u>LOCATION</u>	<u>PRIME USERS</u>	<u>TERMINALS</u>	<u>PRINTERS</u>
OSO	14th Floor	Appraisal Staff	1	1
	16th Floor	Land Resources Staff	1	1
Medford		Resources	1	1
Roseburg		Resources	1	1
			4	4
	15th Floor	Mineral Resources	1	1
	16th Floor	Cadastral Survey	1	1
		Land Resources	1	1
Burns		Mining Claims & Resources	1	1
Laxview		Mining Claims & Resources	1	1
Medford		Mining Claims & Resources	2	2
Coos Bay		Mining Claims & Resources	1	1
Roseburg		Mining Claims & Resources	1	1
Spokane		Mining Claims & Resources	1	1
Vale		Mining Claims & Resources	1	1
Vale (Baker Resource Area)		Mining Claims & Resources	1	1
			17	18







# ADP AND TELECOMMUNICATIONS EQUIPMENT ANALYSIS

TABLE 4

## SUMMARY TABLE TERMINALS/PRINTER NEEDS Total Procurement

OFFICE	LOCATION	PRIME USERS	TERMINALS	PRINTERS
OSO	14th Floor	Records, Accts, Docket	0	1
		Public Room	0	1
		Withdrawal Review	0	1
		Mining Claim Recordation	3	1
		Mineral Leasing	1	1
		Appraisal Staff	1	1
	15th Floor	Mineral Resources	1	1
	16th Floor	Cadastral Survey	1	1
		Land Resources	1	1
Burns		Mining Claims & Resources	1	1
Lakeview		Mining Claims & Resources	1	1
Medford		Mining Claims & Resources	2	2
Coos Bay		Mining Claims & Resources	1	1
Roseburg		Mining Claims & Resources	1	1
Spokane		Mining Claims & Resources	1	1
Vale		Mining Claims & Resources	1	1
Vale (Baker Resource Area)		Mining Claims & Resources	1	1
			17	18



TABLE 4  
SUMMARY TABLE  
TERMINALS/PRINTER NEEDS  
Total Procurement

OFFICE	LOCATION	PRIME USERS	TERMINALS	PRINTERS
OSO	14th Floor	Records, Accts, Docket	0	1
		Public Room	0	1
		Withdrawal Review	0	1
		Mining Claim Recordation	3	1
		Mineral Leasing	1	1
		Appraisal Staff	1	1
	15th Floor	Mineral Resources	1	1
	16th Floor	Cadastral Survey	1	1
		Land Resources	1	1
Burns		Mining Claims & Resources	1	1
Lakeview		Mining Claims & Resources	1	1
Medford		Mining Claims & Resources	2	2
Coos Bay		Mining Claims & Resources	1	1
Roseburg		Mining Claims & Resources	1	1
Spokane		Mining Claims & Resources	1	1
Vale		Mining Claims & Resources	1	1
Vale (Baker Resource Area)		Mining Claims & Resources	1	1
			17	18



## ADP AND TELECOMMUNICATIONS EQUIPMENT ANALYSIS

ADP and telecommunications equipment is prioritized in the same order as equipment needed to support ALMRS in Oregon. The equipment identified is in direct support of the ALMRS program. However, the Level-6 computer and the telecommunications network support other users in this state.

Figure 1 identifies our present situation in terms of ALMRS related terminals, printers and communications devices. This is not the configuration today, but a projection to the end of this FY. Oregon is installing the telecommunication equipment identified on Figure 1 at this time. We have not identified the number of data line to each site on the network. Our network, as being installed, can be upgraded to support 32 data lines from each office on the network by installing multiplexer port cards. In addition, the Rixon switch can be upgraded to support 1000s of terminals. Therefore, we have identified mux. and switch port cards to support ALMRS in this analysis. The TC network requires either hardwire or short haul modems to the multiplexer. We have assumed that all CRTs will require a pair of short haul modems. This requirement is a function of the actual distance from the CRT to the Mux.

### Priority 1

To support essential CRTs and printer needs under priority 1 and existing ALMRS devices, we have identified

1. Mux. port cards for OSO 16th floor.
2. Printer drivers for the HS printer on the 14th floor.
3. Two modems for the CRT on 16th floor.
4. A high speed printer for the public room
5. Maintenance for the above printer
6. Maintenance for the Crts and printers identified.
7. An additional MLCP for our level-6 computer
8. Port cards for the Rixon switch to connect the additional Level-6 ports to the switch.

The additional MLCP is needed to support 14 remote offices and the OSO ALMRS needs. Currently we have one MLCP with 16 ports and 28 ALMRS crts. The switch will allow users to contend for free ports. However, we are limited to 16 maximum at any time. The MLCP will double the access to the Level-6.

For the purpose of this analysis we used the current cost of maintenance for the ALMRS crts and printers (\$150/ year crt and \$300/ year for printers).

The total cost to support Priority 1 would be \$51,350, plus the cost of 1 CRT and 3 printers (HS printer is included in the above figures).



ADP and telecommunications equipment is prioritized in the same order as equipment needed to support ALMRS in Oregon. The equipment identified is in direct support of the ALMRS program. However, the Level-6 computer and the telecommunications network support other users in this state.

Figure 1 identifies our present situation in terms of ALMRS related terminals, printers and communications devices. This is not the configuration today, but a projection to the end of this FY. Oregon is installing the telecommunications equipment identified on Figure 1 at this time. We have not identified the number of data lines to each site on the network. Our network, as being installed, can be upgraded to support 32 data lines from each office on the network by installing multiplexer port cards. In addition, the Rixon switch can be upgraded to support 1000s of terminals. Therefore, we have identified mux. and switch port cards to support ALMRS in this analysis. The TC network requires either hardware or short haul modems to the multiplexer. We have assumed that all CRTs will require a pair of short haul modems. This requirement is a function of the actual distance from the CRT to the Mux.

#### Priority 1

To support essential CRTs and printer needs under priority 1 and existing ALMRS devices, we have identified

1. Mux. port cards for OSO 16th floor.
2. Printer drivers for the RS printer on the 16th floor.
3. Two modems for the CRT on 16th floor.
4. A high speed printer for the public room.
5. Maintenance for the above printer.
6. Maintenance for the CRTs and printers identified.
7. An additional MLCP for our Level-6 computer.
8. Port cards for the Rixon switch to connect the additional Level-6 ports to the switch.

The additional MLCP is needed to support 14 remote offices and the OSO ALMRS needs. Currently we have one MLCP with 16 ports and 38 ALMRS CRTs. The switch will allow users to contend for free ports. However, we are limited to 16 maximum at any time. The MLCP will double the access to the Level-6.

For the purpose of this analysis we used the current cost of maintenance for the ALMRS CRTs and printers (\$150\ year crt and \$300\ year for printers).

The total cost to support Priority 1 would be \$51,350, plus the cost of 1 CRT and 3 printers (RS printer is included in the above figures).



## Priority 2

To establish full State Office capability and improve capability at the seven high volume sites, additional upgrades in telecommunications and ADP equipment are required, specifically:

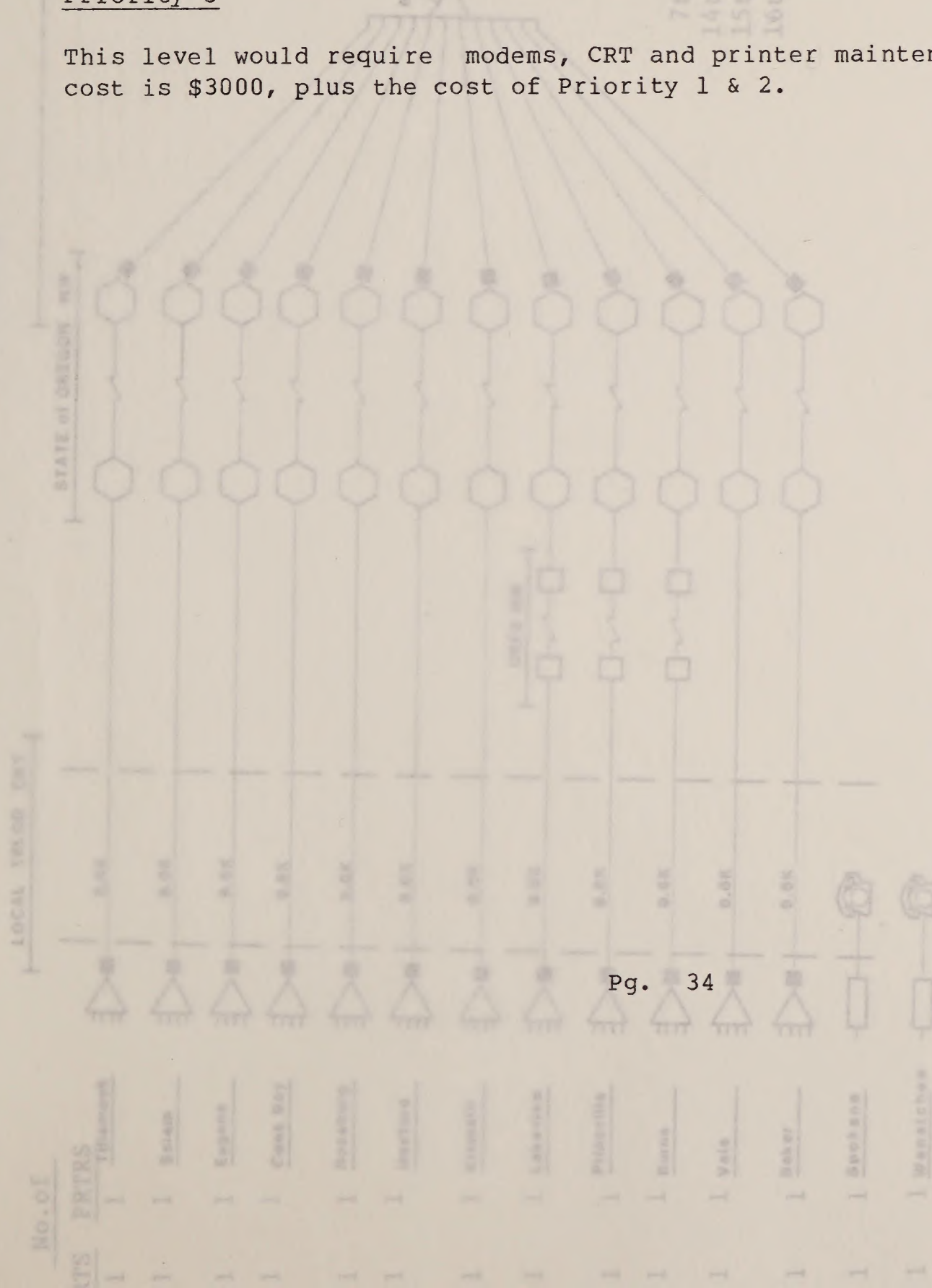
1. Mux. port cards for OSO 14th and 16th floors, and all offices identified in Figure 2.
2. Modems to support these CRTs.
3. Maintenance for the CRTs and printers.
4. An upgrade for the OSO Level-6 computer.

In order to support the 41 ALMRS CRTs which would be online under this proposal, we need a bigger computer. Based on experience in other States and in Oregon the Level-6 could not handle this workload.

The total cost to support this level is \$323,700 plus the cost of 12 CRTs, 10 printer and Priority 1.

## Priority 3

This level would require modems, CRT and printer maintenance. The total cost is \$3000, plus the cost of Priority 1 & 2.





Priority 2

To establish full State Office capability and improve capability at the seven high volume sites, additional upgrades in telecommunications and ADP equipment are required, specifically:

1. Mux. port cards for OSO 14th and 16th floors, and all offices identified in Figure 2.

2. Modems to support these CRTs.
3. Maintenance for the CRTs and printers.
4. An upgrade for the OSO Level-6 computer.

In order to support the 41 ALMRS CRTs which would be online under this proposal, we need a bigger computer. Based on experience in other States and in Oregon the Level-6 could not handle this workload. The total cost to support this level is \$323,700 plus the cost of 12 CRTs, 10 printer and Priority 1.

Priority 3

This level would require modems, CRT and printer maintenance. The total cost is \$3000, plus the cost of Priority 1 & 2.



# BLM OREGON/WASHINGTON DATA COMMUNICATION NETWORK

## ALMRS DIAGRAM PRESENT SITUATION

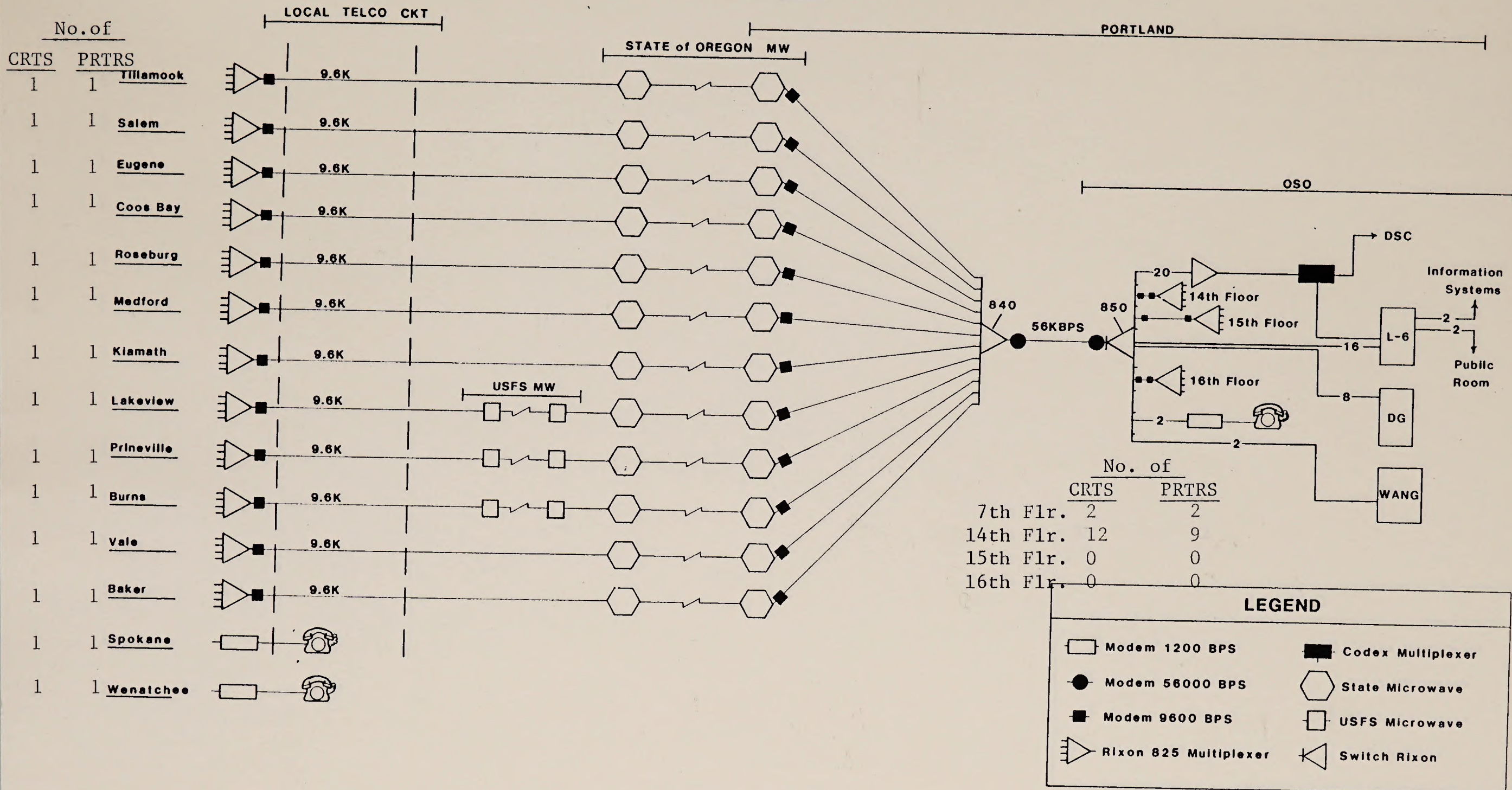


Figure 1, Page 35



Figure 1. July 82



NOTES: The diagram shows the structure of the network as of July 82. The nodes are arranged in a hierarchical tree structure, with the root node at the top. The nodes are represented by different symbols: circles, squares, and triangles. The diagram is labeled with 'July 82' and 'Figure 1'.



ALMRS DIAGRAM  
PRIORITY 1

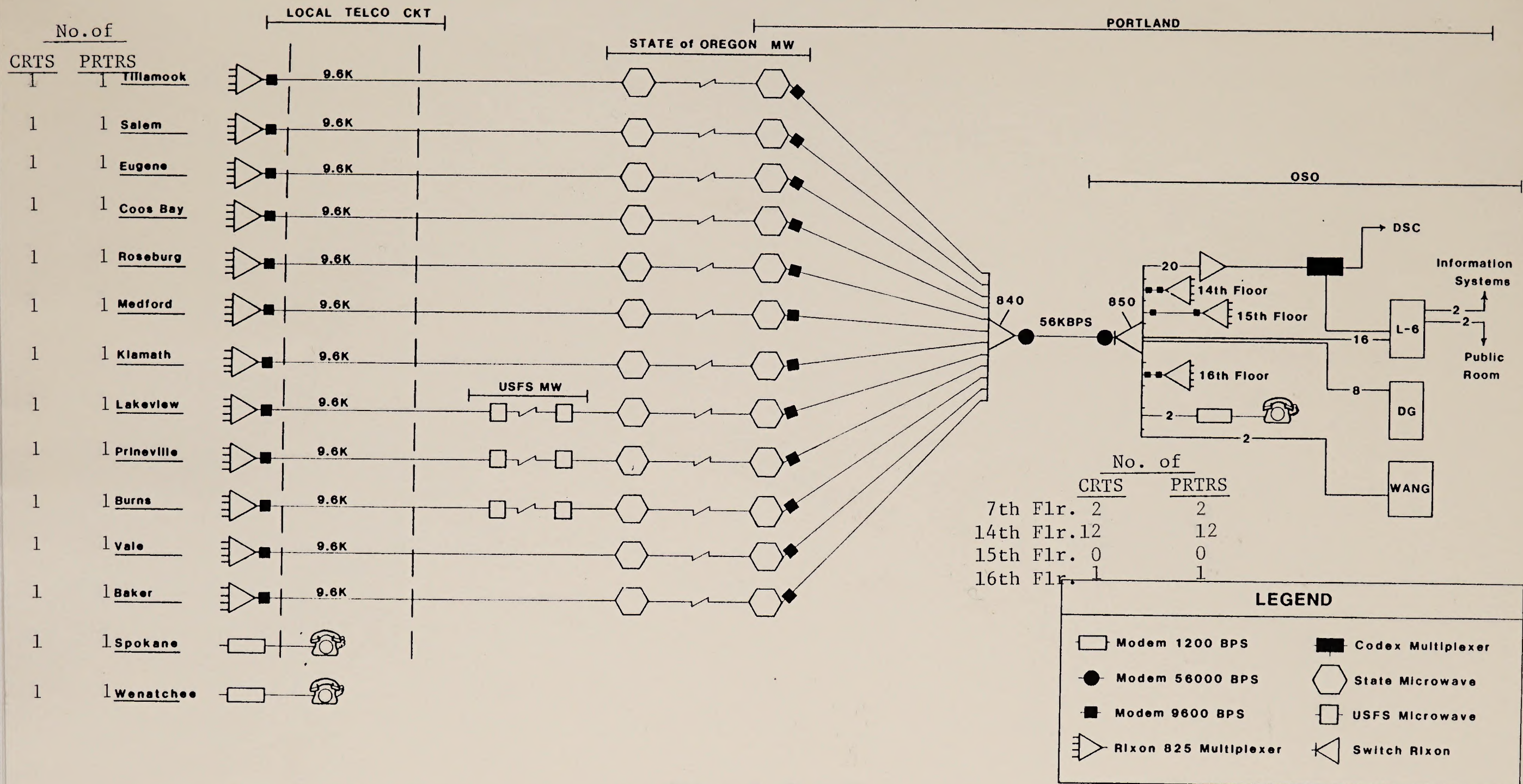


Figure 2, Page 36







# BLM OREGON/WASHINGTON DATA COMMUNICATION NETWORK

ALMRS DIAGRAM  
PRIORITY 2

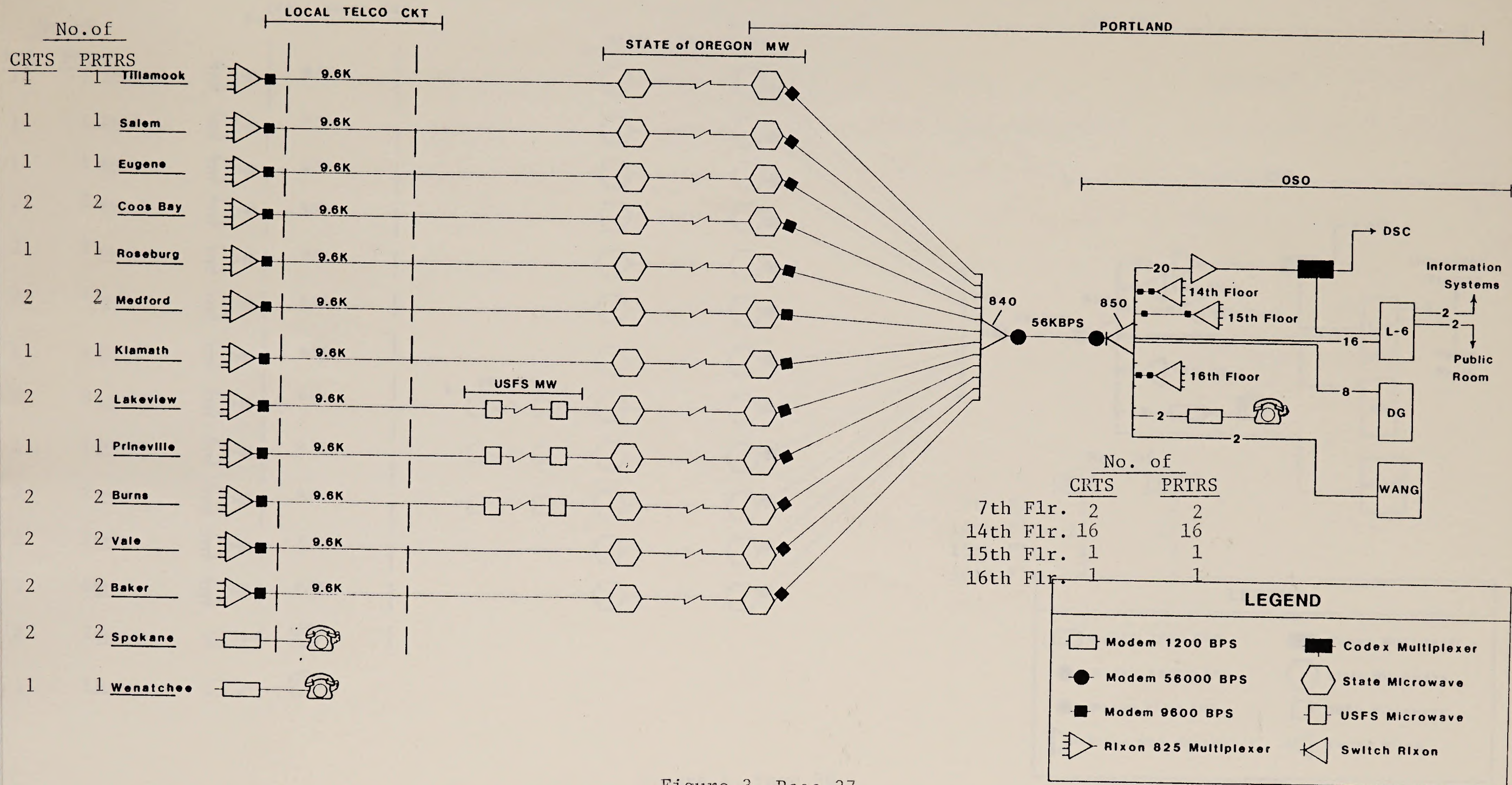


Figure 3, Page 37







# BLM OREGON/WASHINGTON DATA COMMUNICATION NETWORK

ALMRS DIAGRAM  
PRIORITY 3

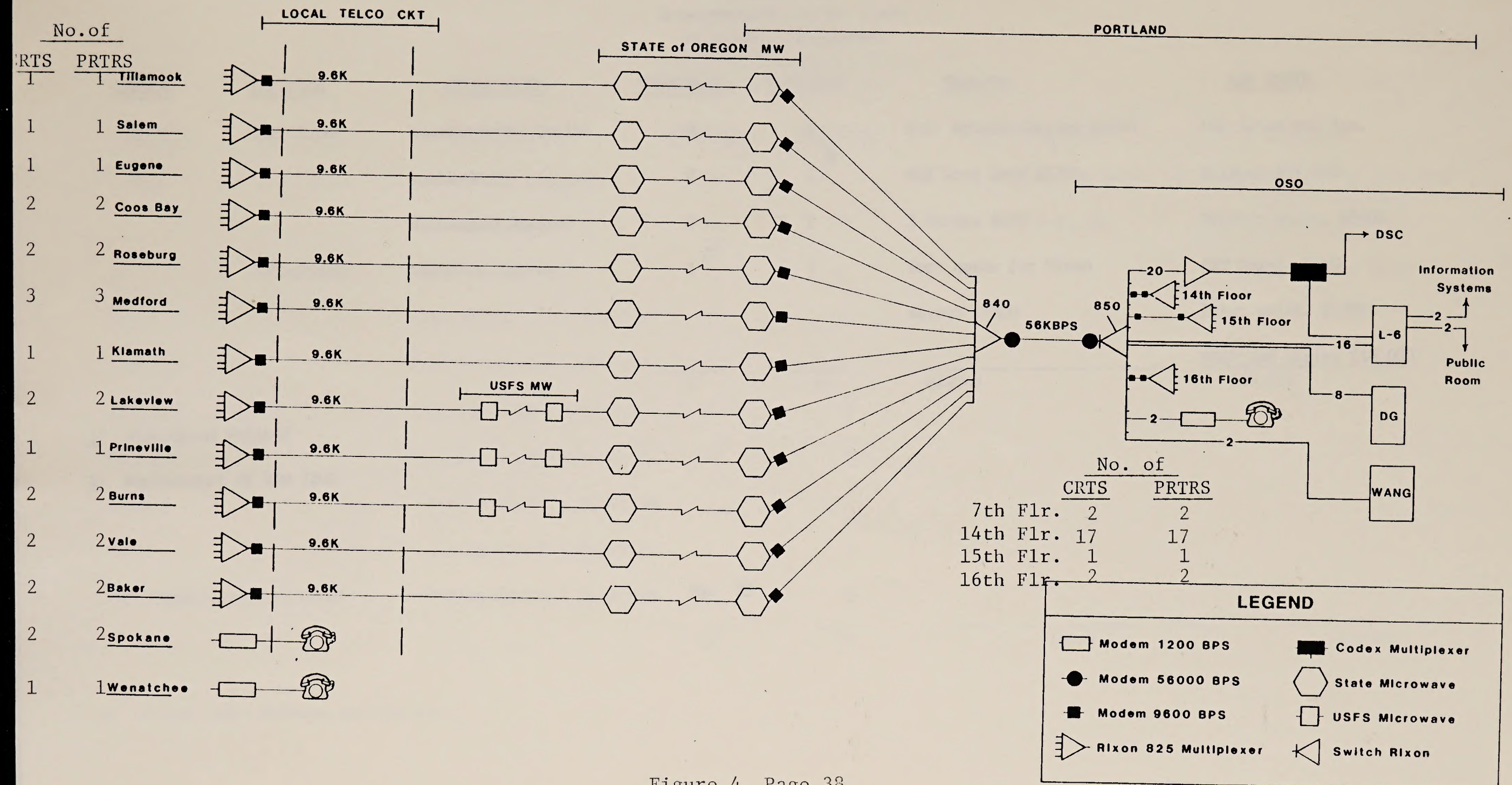


Figure 4, Page 38



Figure 1: 10/10/70



Figure 2: 10/10/70  
 10/10/70  
 10/10/70







IV high speed printer



TABLE 6

SUMMARY TABLE  
Telecommunications/ADP Needs  
Priority 2 Procurement

<u>OFFICE</u>	<u>LOCATION</u>	<u>PRIME USERS</u>	<u>TERMINALS</u> <u>1/</u>	<u>PRINTERS</u>	<u>TELECOM</u>	<u>ADP EQUIP</u>
OSO	14th Floor	Mining Claim Record.	3	1	9 MUX Port Cards \$15,300	\$300,000 upgrade from Level-6 to DPS-6
		Mineral Leasing	1	1	24 Modems \$3,600	CRT Maint. \$1800
	15th Floor	Mineral Resources	1	1		Prtr Maint. \$3000
Burns		Mining Claims & Resources	1	1		
Coos Bay		Mining Claims & Resources	1	1		
Lakeview		Mining Claims & Resources	1	1		
Medford		Mining Claims & Resources	1	1		
Spokane		Mining Claims & Resources	1	1		
Vale		Mining Claims & Resources	1	1		
Vale (Baker Resource Area)		Mining Claims & Resources	1	1		
			<hr/> 12	<hr/> 10	<hr/> \$18,900	<hr/> \$304,800

1/ One new and two Omron replacements.







TABLE 7  
SUMMARY TABLE  
Telecommunication/ADP Needs  
Priority 3 Procurement

OFFICE	LOCATION	PRIME USERS	TERMINALS	PRINTERS	TELECOM	ADP EQUIP
OSO	14th Floor	Appraisal Staff	1	1	8 modems \$1200	CRT Maint. \$600
	16th Floor	Land Resources Staff	1	1		Prtr. Maint. \$1200
Medford		Resources	1	1		
Roseburg		Resources	1	1		
			4	4	\$1200	\$1800
Burns		Mining Claims & Resources				
Lakeview		Mining Claims & Resources	1	1		
Medford		Mining Claims & Resources	2	2		
Cook Bay		Mining Claims & Resources	1	1		
Roseburg		Mining Claims & Resources	1	1		
Spokane		Mining Claims & Resources	1	1		
Vale		Mining Claims & Resources	1	1		
Vale (Baker Resources Area)		Mining Claims & Resources	1	1		
			17	18	\$32,100	\$345,950

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TABLE 8  
SUMMARY TABLE  
Telecommunication/ADP Needs  
Total Procurement

<u>OFFICE</u>	<u>LOCATION</u>	<u>PRIME USERS</u>	<u>TERMINALS</u>	<u>PRINTERS</u>	<u>TELECOM</u>	<u>ADP EQUIP</u>
OSO	14th Floor	Records, Accts, Docket	0	1	HS Printer Driver \$4000	\$10,000 MLCP
		Public Room	0	1	10 MUX Port cards \$17,000	\$25,000 printer
		Withdrawal Review	0	1	34 Modems \$5100	\$3000 printer maint.
		Mining Claim Recordation	3	1	Port Cards for Switch \$6000	CRT Maint. \$2550
		Mineral Leasing	1	1		Prtr. Maint. \$5400
		Appraisal Staff	1	1		DPS-6 \$300,000
	15th Floor	Mineral Resources	1	1		
	16th Floor	Cadastral Survey	1	1		
		Land Resources	1	1		
	Burns	Mining Claims & Resources	1	1		
Lakeview		Mining Claims & Resources	1	1		
Medford		Mining Claims & Resources	2	2		
Coos Bay		Mining Claims & Resources	1	1		
Roseburg		Mining Claims & Resources	1	1		
Spokane		Mining Claims & Resources	1	1		
Vale		Mining Claims & Resources	1	1		
Vale (Baker Resource Area)		Mining Claims & Resources	1	1		
			17	18	\$32,100	\$345,950

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8 JULY 8